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# Centre College Bulletin

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MARCH, 1920

UNIVERSITY OF ILLINOIS  
Vol. XV, No. 1

CATALOGUE  
NUMBER  
1919-1920



# Centre College Bulletin


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SERIES ONE

VOLUME XV No. 1

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## THE ANNUAL CATALOGUE

For the Academic year  
of 1919-1920 with an-  
nouncements for the  
year 1920-1921. 

DANVILLE, KENTUCKY,  
MARCH, 1920

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## CORRESPONDENCE

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Requests for catalogues and other publications of Centre College, inquiries concerning entrance requirements, applications for scholarships, and correspondence in regard to general matters of business should be addressed to the President.

## FOREWORD

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Although Centre College entered upon its corporate life in 1819, the seed from which the life developed must be sought forty years earlier. Formal education in Kentucky began in 1780, when the Legislature of Virginia granted a charter and 10,000 acres of land to a school to be established in the province of Kentucky. In accordance with this act, Transylvania Academy was opened in Danville in 1785. It was moved to the larger town of Lexington in 1788. The leaders in the securing of the charter were Presbyterians, and the teacher, both at Danville and at Lexington, was a Presbyterian minister. When, therefore, in 1794, this teacher was ejected and a man of a different denomination installed, the Presbytery of Transylvania felt that it had been unjustly treated, and proceeded immediately, with contributions of money from Kentucky and the East, to found an institution at Pisgah under the name of Kentucky Seminary. About \$15,000 was raised, among the contributors of which were George Washington and John Adams, each of whom gave one hundred dollars. The seminary grew rapidly. In a short time, after overtures from the older academy, the two were united under the name of Transylvania University. By 1817 Transylvania University had gradually passed from Presbyterian control. It was then that the Presbyterians of Kentucky sought a charter for Centre College, to renew in Danville the first educational foundation made in the State. The Legislature granted the charter in 1819.

Centre College is, therefore, one of the oldest institutions of higher education in Kentucky, or in the



South, having graduated the first class as early as 1824. The College has prosecuted its work successfully and without interruption from that day to the present. Not a year has passed in which it has not sent out graduates.

Central University was organized at Richmond, Kentucky, under a charter granted by the Legislature, March 3, 1873, providing for the establishment of an institution of the highest order, on the university plan. Under this plan, professional Colleges of Law, Medicine and Dentistry, and three preparatory schools were established, in addition to the College of Philosophy, Letters and Science.

In 1901, these two institutions were legally consolidated under the corporate name of "Central University of Kentucky," with agreement and provision to "continue the College at Danville for instruction in Literature and in the Arts and Sciences, the same to be known as THE CENTRE COLLEGE OF KENTUCKY."

For several years the catalogue of all the departments was published in one volume, containing the full record of Central University. In recent years a separate bulletin has been published for each school. This volume is the annual catalogue of Centre College.

At the close of the ninety-fifth Commencement, in 1919, this College had granted degrees to one thousand, nine hundred and eighty-four Bachelors of Arts or of Science. A gratifyingly large number of the Alumni have attained prominence in the various walks of life.

The College has always been small in number of students, but has maintained a high standard of scholarship, a very strong faculty and complete equipment for college work, and has had marked success in inspir-

ing young men with ambitions and ideals for noble living and useful service.

Centre College has educated twenty-five College Presidents, more than fifty College Professors, twenty-nine Representatives in Congress, five United States Senators, ten Governors of States, two Vice Presidents of the United States, one Justice of the Supreme Court of the United States, forty-nine Circuit Judges, nine Moderators of the General Assemblies of the Presbyterian Churches, and a very large number of men who have been successful in the professions of Law, Medicine, Teaching and the Ministry.

The Presbyterian Churches have, for nearly a century, received into their ranks many gifted ministers and workers from the students and graduates of Centre College and Central University, and, since the consolidation in 1901, from the Centre College at Danville, Kentucky.

In 1918 the charter was amended, and the corporate name of the institution changed to its former name, Centre College of Kentucky.

# Centre College of Kentucky

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## OFFICERS

WILLIAM ARTHUR GANFIELD, A. M., D. D., LL. D.

*President*

J. A. CHEEK, Esq.

*Treasurer*

## BOARD OF TRUSTEES

### Term Expires 1920

REV. CHARLES R. HEMPHILL, D. D.	Louisville
JOHN STITES, Esq.	Louisville
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W. L. THRELKELD, Esq.	Lexington
HON. J. T. TUNIS	Lexington

### Term Expires 1921

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Hon. JOHN W. YERKES	Danville
J. A. CHEEK, Esq.	Danville

### Term Expires 1922

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C. C. FOX, Esq.	Danville
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REV. DAVID M. SWEETS, D. D.	Louisville
REV. HUGH LEITH, D. D.	Covington
GIBNEY OSCAR LETCHER, A. M.	Henderson

### Term Expires 1923

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HENRY CLAY READ, Esq.	Fort Smith, Ark.
A. J. A. ALEXANDER, M. D.	Spring Station
Hon. EMMET O'NEAL	Louisville
RICHARD ERNST, Esq.	Covington
GEORGE W. WELSH, Esq.	Danville

## OFFICERS OF THE BOARD OF TRUSTEES

A. J. A. ALEXANDER, M. D., *Chairman* Spring Station  
J. A. CHEEK, Esq., *Secretary and Treasurer* Danville

## STANDING COMMITTEES OF THE BOARD OF TRUSTEES

The President of the College is ex-officio member  
of all Committees.

### Executive Committee

G. W. WELSH, *Chairman*.

W. L. THRELKELD, C. R. HEMPHILL, CHAS. C. FOX, J. A.  
CHEEK, D. M. SWEETS, A. J. A. ALEXANDER, R. P. ERNST.

### Finance Committee

W. L. THRELKELD, *Chairman*.

CHAS. C. FOX, G. W. WELSH, J. A. CHEEK.

### Buildings and Grounds

G. W. WELSH, *Chairman*.

CHAS. C. FOX, H. B. FLEECE, J. R. COWAN.

### Morals and Discipline

EMMIT O'NEAL, *Chairman*.

G. W. WELSH, J. R. COWAN.

### Curriculum

H. C. READ, *Chairman*.

E. L. WARREN, J. P. MCCARTNEY.

## OFFICERS OF ADMINISTRATION

WILLIAM ARTHUR GANFIELD, A. M., D. D., LL. D.

*President*

JOHN W. REDD, A. M., LL. D.

*Dean*

JOHN ADAMSON CHEEK, Esq.

*Treasurer*

CHARLES GRAHAM CROOKS, A. M., LL. D.

*Registrar*

DANIEL LINDSEY THOMAS, PH. D.

*Secretary of the Faculty*

LIDA DUKE WOODS

*Assistant Treasurer and Secretary to the President*

ELIZABETH A. FALES

*Assistant in the Library*

## CALENDAR 1921

JANUARY							FEBRUARY							MARCH							APRIL						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
2	3	4	5	6	7	8	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	1	2	3	4	5	6
16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	..	..	..	..	..	..	..	..	..	..	..	..
23	24	25	26	27	28	29	30	31	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
30	31	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
MAY							JUNE							JULY							AUGUST						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
1	2	3	4	5	6	7	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
18	19	20	21	22	23	24	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
25	26	27	28	29	30	31	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
22	23	24	25	26	27	28	18	19	20	21	22	23	24	25	26	27	28	29	30	31	..	..	..	..	..	..	..
29	30	31	..	..	..	..	26	27	28	29	30	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
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SEPTEMBER							OCTOBER							NOVEMBER							DECEMBER						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
1	2	3	4	5	6	7	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
8	9	10	11	12	13	14	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
15	16	17	18	19	20	21	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	..	..	..	..
22	23	24	25	26	27	28	22	23	24	25	26	27	28	29	30	31	..	..	..	..	..	..	..	..	..	..	..
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## CALENDAR

1920

FEBRUARY 2	Second semester begins.
MAY 31	} Final examinations.
JUNE 5	
JUNE 6	Baccalaureate Sermon, 11 A. M.
JUNE 7	Class-day Exercises, 10 A. M.
JUNE 7	Meeting of Trustees, 9:30 A. M.
JUNE 8	97th Annual Commencement, 10 A. M.
JUNE 10	Summer vacation begins.
SEPTEMBER 13-14	Examination and registration of students.
SEPTEMBER 15	First semester begins.
DECEMBER 22	Christmas recess begins, 4 P. M.

1921

JANUARY 6	Recitations resumed, 8 A. M.
JANUARY 14	Ernst Debate.
JANUARY 24-29	Semester examinations.
JANUARY 31	Second semester begins, 8 A. M.
JUNE 9	Ninety-eighth Annual Commencement.

# CENTRE COLLEGE OF KENTUCKY

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## FACULTY

WILLIAM ARTHUR GANFIELD, A. M., D. D., LL. D. President's House  
*President; John C. Young and William C. Young  
Foundation*

JOHN W. REDD, A. M., LL. D. 243 N. Third Street  
*Dean; Professor of Greek Language and Literature*

SAMUEL ROBERTSON CHEEK, A. M. 120 E. Lexington Street  
*Professor of Latin Language and Literature*

CHARLES GRAHAM CROOKS, A. M., LL. D. 448 W. Lexington Street  
*Registrar; Henry Bell Walters Professor of Mathematics*

FRANK LEWIS RAINEY, S. B. 424 W. Broadway  
*Professor of Biology and Geology*

\*NEWLAND FARNSWORTH SMITH, PH. D. 401 Maple Ave.  
*Professor of Physics*

\*\*DANIEL LINDSEY THOMAS, PH. D. N. Third Street  
*Professor of English*

HENRY MEIER, PH. D. N. Third Street  
*Professor of Modern Languages*

WALTER HATHERAL COOLIDGE, PH. D. N. Third Street  
*Professor of Chemistry*

WALTER EVAN ERVIN, A. M. College Campus  
*Professor of Education and Philosophy*

CHARLES ETHELBERT ALLEN, A. M. Old Centre.  
*Professor of History and Political Science*

BRINKLEY BARNETT, B. M. E. E. Lexington  
*Instructor in Physics*

JOHN WILLIAM BRANSON, Ph. B. E. Main  
*Instructor in Mathematics and English*

---

\*Resigned in October.

\*\*Deceased.



ROBERT LEE MYERS, A. B.

*Director of Athletics*

CHARLES BARTHELL MORAN

*Coach*

RAY E. HIGGINS, A. B.

*Basket-Ball Coach*

LIDA DUKE WOODS

*Secretary to the President*

ELIZABETH A. FALES

*Assistant in the Library*

### STANDING COMMITTEES OF THE FACULTY

The President of the College is ex-officio member of all Committees.

#### UNDERGRADUATE STUDIES

PROFESSORS CROOKS, RAINEY, ERVIN.

#### GRADUATE STUDIES

PROFESSORS MEIER, REDD, THOMAS.

#### ATHLETICS

PROFESSORS RAINEY, COOLIDGE, CHEEK, MEIER, ALLEN.

#### STUDENT ORGANIZATIONS AND PUBLICATIONS

PROFESSORS ALLEN, THOMAS, ERVIN, CHEEK.

#### PUBLIC FUNCTIONS AND CONTESTS

PROFESSORS THOMAS, ALLEN, ERVIN.

#### PUBLICATION

PROFESSORS CROOKS, RAINEY, ERVIN, ALLEN.

#### CONFERENCE

PROFESSORS CHEEK, REDD, CROOKS, RAINEY.

#### SCHEDULE

PROFESSORS COOLIDGE, THOMAS.

#### RELIGIOUS WORK

PROFESSORS ERVIN, MEIER, ALLEN, CROOKS.

#### LIBRARY

PROFESSORS REDD, THOMAS, MEIER.

#### DATES

PROFESSOR RAINEY.



## ADVISERS

A system of advisers has been organized to facilitate registration, to guide each student in the choice of his studies, and to bring him into closer touch with the staff of instructors.

The Registrar is the adviser of all Freshmen and of all other students until each has chosen his major subject. This choice must be made by the middle of Sophomore year, and the head of the department in which a student chooses his major then becomes his adviser.

# GENERAL INFORMATION

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## TWO-FOLD PURPOSE OF THE COLLEGE

First of all, Centre College strives now, as it has done in the past, to develop men of broad and sound culture. It proceeds on the principle that liberal symmetrical development should precede specialized training; that for successful life work a young man's mind and character require full cultivation, and that the college must, therefore, not be changed into a mere technical school.

On the other hand, the increased demands for technical training in professional and industrial life make it desirable that the student should also relate his undergraduate study directly to his life work. Although he should not sacrifice the symmetrical development of the whole man, yet he should have opportunity to do work that will bear upon the technical training that he will take later. Therefore, Centre College offers courses that lead up to the study of medicine, law, the ministry, agriculture, engineering, industrial science, and the like; moreover, the thorough courses of undergraduate study give unexcelled training for immediate entrance into high school teaching. The attempt is made to maintain a right balance between studies of cultural and disciplinary character and those that possess an intrinsic practical value.

## A CHRISTIAN COLLEGE

Centre College is pre-eminently a Christian College. It recognizes the fact that the spiritual welfare of the young man is of supreme importance. The Bible occupies an important place in the curriculum. Christian principles are inculcated in the chapel services and elsewhere in the life of the College. From time to time, special services are held for the students, and addresses on the call of the ministry and the needs in the other professions, are given at the chapel hour.

The members of the faculty are all Christian men who recognize their responsibility for the moral and spiritual, as well as the intellectual, well-being of the students.

Centre College is not sectarian. Several Christian denominations are represented in the faculty, and students of all denominations receive cordial welcome and find here a friendly and congenial atmosphere.

### A SMALL COLLEGE

Centre College belongs to that type of educational institution called the "small college." There are distinct advantages to the student in being trained in such an institution. Among these are the individual instruction, the closer contact, and more intimate personal relations with experienced instructors, made possible by smaller classes and a smaller college community. There is also a better opportunity for the development of individual initiative and of the qualities of leadership in the greater community of interest and more intimate contacts of a comparatively small student body.

The record of Centre College in producing leaders in public, professional and business life is an unusual one, and is due in no small degree to the fact that it has always been a small college.

### A COLLEGE FOR MEN

Centre College, as the only college in Kentucky which is not coeducational, offers all the advantages afforded by an institution which uses all of its facilities and equipment in fitting men only for the duties and work of life, and concentrates all of its efforts upon the accomplishment of that particular task.

### LOCATION

#### ADVANTAGES OF LOCATION.

Danville, the seat of the College, is situated on the main line of the Queen & Crescent Railroad, extending with its leased lines from Cincinnati to New Orleans, and is the terminus of the Louisville division of the Southern Railway; it is also near the Lebanon and Knoxville branch of the Louisville & Nashville Railroad, and is easily accessible from all quarters. Danville is

very near the geographical center of the State, within the "Blue Grass" region, and is surrounded by beautiful and fertile country. It has an elevation of about one thousand feet above the level of the sea, and the surrounding country is undulating so as to afford perfect drainage. Probably no more healthful spot can be found within the limits of the State. Malaria is unknown except when brought in from other sections of the country. This small city of about 7,000 inhabitants is noted for its high moral tone, and for the refinement and intelligence of its people. It has long been the seat of important educational institutions for both men and women. The town has strong churches of all leading denominations, and the people are church-going.

#### ACCESSIBILITY

The way to reach Danville is via the trunk line known as the Queen & Crescent Route, or by the Southern Railway from Louisville and intervening and connecting points. Solid vestibuled trains via the Q. & C. run from New Orleans, Meridian, Birmingham and Chattanooga to Danville without change.

### DORMITORY FACILITIES

#### BRECKINRIDGE HALL

This building furnishes dormitory facilities of the most modern type, with every convenience that such a building should have. The building is steam heated throughout, while ample facilities for bathing and all toilet necessities are found on each side. Gas and electricity are installed for lighting, and either can be used at the option of the resident.

The addition of a hospital room for non-infectious diseases with private bath room attached, to be used at the command of a physician, furnishes a suitable equipment, both sanitary and comfortable, in the case of students who may be confined to the hall by minor ailments.

All students receiving any form of scholarship, position as assistant, or other favors, from the College, live in the dormitory and large numbers of other students seek rooms here because of the superior advantages offered, the cheaper rates and the excellent location.

The janitor service of the dormitory includes the care of rooms, making of beds and all necessary attention.

The furniture includes single iron beds with springs and mattress, table, chairs, dresser, and washstand. All earthenware goods will be furnished by the occupant of the room, as also rugs, curtains, bed linen, and covers, pillows, etc.

Students rooming in Breckinridge Hall are required to make a deposit of \$5.00 to cover damages to room or furniture. What remains of the deposit after paying for the damage done, will be refunded at the close of the year.

The charge for a room in Breckenridge Hall is \$25.00 for a semester; \$50.00 for the year.

#### APPLICATION FOR ROOMS

Rooms will be reserved in order of application.

Application for reservation must be made to the Secretary or to the President, accompanied by a deposit of \$5.00, which will be credited on the rent of the room. If the room is not taken and the balance of the rent paid the deposit will be forfeited.

In making application it will be well to indicate the number of room according to first, second and third choice. Early application is recommended.

#### PAYMENT OF RENT AND LIGHT

Room rent must positively be paid in cash in advance at the opening of each semester. No bills for rent will be sent to parents or guardians.

## EXPENSES

## COLLEGE DUES

The Treasurer will be at the College for the collection of fees at the opening of each semester, when all students are required to settle with him. Bills will be sent to parents or guardians upon written request from same. Before a student is admitted to actual standing in any class, a class card showing that he has complied with the rules relating to College charges must be presented. No fees will be returned save in cases of removal from the College on account of severe and protracted illness.

## UNDERGRADUATE DUES

Matriculation Fee (Paid once only)-----	\$ 5 00
Tuition for regular schedule, First Semester-----	25 00
Second Semester -----	25 00
Public Rooms Fee (light, heat, care), First Semester-----	12 50
Second Semester -----	12 50

Damage deposit, \$1.50 per semester. The order of the Board of Trustees as to this deposit is as follows:

Ch. 9. SEC. 2. When damage is done to the College buildings or the appurtenances thereof, and the one who did it can not be detected, it shall be paid out of the deposit of one dollar and fifty cents, required at the opening of each semester of all students. What remains of the deposit after paying for the damages done, shall be refunded to the students at the close of the year.

There is no charge for registration, if it is completed on the Registration Days; *otherwise, a fee of One Dollar will be charged.* This fee will be remitted only by order of the President upon presentation of a sufficient excuse for such delay. The mere fact of the student returning to Danville after the opening of the term will not be considered as a ground for remitting the charge for late registration, unless the cause of such delay be illness or an equally important reason. *This rule, however, does not apply to new students who may enter college too late for registration on the regular days.*

A fee of six dollars per year for athletics is required from all students *and must be paid at the time of entering college.* This fee will provide for admission to all intercollegiate athletic con-



tests held in Danville under the auspices of Centre College and also for the use of the tennis courts on the campus.

A graduation fee of \$7.00, covering diploma fee and all expenses of Commencement Day, must be deposited by every candidate for graduation with the Treasurer of the College at the opening of the second semester. If the candidate should not receive a diploma, this deposit will be returned.

Laboratory fees are as follows:

### *Chemistry*

All Laboratory courses, per semester-----\$7 50

### *Physics*

All Laboratory courses, per semester----- 5 00

### *Biology*

Elementary Biology, per semester----- 5 00

Comparative Anatomy, per semester----- 5 00

Histology, per semester----- 5 00

Bacteriology, per semester----- 6 00

### *Surveying*

For each course, per semester----- 5 00

The above fees cover the cost of ordinary experimental material, but students are charged extra for breakage and for special and rare material.

## GRADUATE DUES

For information concerning graduate dues, consult the general rules governing graduate study, page 54.

## SELF HELP

Lack of pecuniary means alone need not prevent young men of energy and persistent purpose from obtaining a college education. Many find remunerative employment for leisure hours and vacations which enable them to complete the course free from debt. It is generally true that there is work to be had about

town for those who want it. It can not usually be engaged beforehand.

There are some opportunities for service in connection with the college open to qualified students.

## SCHOLARSHIPS

The College has a limited number of scholarships which are used, in accordance with the conditions governing the award of each, in aiding deserving young men who are unable to meet all the necessary expenses of a college course. It is not expected that those whose necessary expenses can be met by parents or through other sources will apply for such aid.

Scholarships will not be granted to students who fail to meet the following requirements:

1. Good scholarship.
2. High personal character.
3. The need of pecuniary aid.
4. Punctuality, regularity, and respect for law and order in student life.
5. Habits of economy in the use of both time and money.

In awarding scholarships preference is given to regular candidates for a degree, and to those who intend to finish their course in Centre College.

Every holder of a scholarship may be called upon to render to the college some service to be designated by the President. Such service shall not exceed five hours a week, and so far as possible, will be of such nature as to have some educational value in itself. No scholarships are given to students conditioned in any subject.

## STUDENT ORGANIZATIONS

### YOUNG MEN'S CHRISTIAN ASSOCIATION

No organization in the country has exerted a more powerful influence for good upon the lives of young men than the Young Men's Christian Association. The local society of the international organization has long been an important factor in the life of the College. Religious meetings are held here regularly in the



College Union on Wednesday evening, and occasional social gatherings are arranged by the Association.

The Association can be of special help to new students and they are urged to ally themselves with it immediately upon entering college.

#### LITERARY SOCIETIES

There are two literary societies connected with the College—the Chamberlain and the Deinologian. The work of the societies is regarded as supplemental to that done in the class-rooms, and they are encouraged accordingly. Their exercises consist of debate, declamation, composition, and other forms of literary activity, and are conducted under such rules and regulations as the societies may adopt, consistent with the general objects of the College.

Credit is given in the English Department, under certain restrictions, for work done in the literary societies.

The literary societies hold public exercises on the 22nd of February. To the successful competitor a gold medal is awarded. The successful contestant in the contest represents the College in the annual Inter-Collegiate State Oratorical Contest. The Ernst Debate has been established by Mr. Richard P. Ernst, of Covington, Ky., and is held as the preliminary debate in view of the annual Inter-Collegiate Debate of the Kentucky Inter-Collegiate Debating Association.

#### THE ROUND TABLE

The Round Table is a scholarship society of advanced students and members of the Faculty, instituted in the fall of 1907. It is intended to conserve and stimulate an interest in literary and humanistic subjects beyond the work of the classroom. To this end, at the fortnightly meetings of the club, the members read and submit for discussion papers within the scope of the Society's interests. Students who have completed with an excellent record in scholarship, two and one-half years of work, and who have shown an active interest in humanistic and literary subjects, are eligible for membership.

## STUDENT PUBLICATIONS

The students of the College publish a bi-weekly paper, The Centre College Cento, which is devoted to the recording of current events in the College world, and to literary articles by the students, thus furnishing opportunity for valuable training in journalism to students with a gift for writing. In addition, an annual, "Old Centre," is published every spring by the Senior Class.

## STUDENT ACTIVITIES

The students are allowed and encouraged to form and maintain societies for useful purposes. But all such societies must be formed with the consent of the Faculty, and must be conducted in conformity with any regulations which the Faculty may from time to time prescribe.

No meeting of student organizations or associations, and no public meeting of students may be held during the hours devoted to the regular exercises of the College without permission of the President or the Dean.

No meeting of student organizations may be held in the chapel or recitation rooms of the College without permission of the President or the Dean.

To be eligible to participate in any inter-collegiate contest, or to participate, (1) in an oratorical, dramatic, or musical exhibition, (2) in the official management of any class organization, or college team, or (3) in official service on any student publication, a student (1) must be carrying not less than 12 hours of college work and (2) must have passed in at least two-thirds of his work of the preceding semester, and (3) maintain a passing grade in two-thirds of his current work.

The Faculty Committee on Student Publications is authorized to review all student publications before issue whenever the occasion arises for such review.

No student publication shall appear without the sanction of the Faculty Committee on Student Publications.

Each student taking part in the Class Day exercises shall submit to the chairman of the Faculty Committee on Student Publications a copy of his speech at least one week before Commencement, and if he shall make additions to what is contained in the copy approved, or shall speak anything in public which he has been directed to omit, he shall forfeit his degree.

## BOARD OF CONTROL OF ATHLETICS

Facilities are provided for various forms of athletic activities in the Boyle-Humphrey-Alumni Gymnasium and on Logan Cheek Field. Intercollegiate athletic contests are under the immediate direction of the instructor in physical education, and are under the supervision of the Board of Control of Athletics. This board is composed of members appointed from the faculty, the alumni association and the undergraduates. It supervises the expenditure of all funds devoted to athletics, determines the general policy of this branch of college life and has general oversight of the equipment of the various college teams.

Centre College is a member of the Southern Intercollegiate Athletic Association and is governed by the eligibility rules of that body.

The following is a statement, in part, of these rules:

No one shall participate in any intercollegiate sport unless he is a bona fide matriculated student regularly enrolled as a candidate for a degree and doing full work in a regular course as defined by the regulations of the department in which he is enrolled.

No one shall participate in intercollegiate athletics who does not matriculate within fifteen days after the opening date of the college.

No one shall participate in intercollegiate athletics unless he presents, upon first entrance to college fourteen units.

No one shall participate in any intercollegiate contest who receives any gift or remuneration or pay for his athletic services directly or indirectly; or who shall bet on any contest in which he participates.

No one shall play under an assumed name.

No one who has been a student at another institution of collegiate rank shall be permitted to play on a team of this association until he has been in residence for one collegiate year.

No one who has participated in any intercollegiate contest and fails to complete at least twelve college hours (twenty four semester hours) shall be eligible to play the following year.

## COLLEGE BUILDINGS

### THE MAIN BUILDING

This building, which was completed and occupied in the fall of 1871, is of brick with stone trimmings. It contains three stories and basement. On the first floor are the lecture rooms of the Departments of Mathematics, Modern Languages, History, and Economics and the Museum. The second floor contains the chapel and the lecture rooms of the Departments of English, Latin and Greek. On the third floor are the halls and libraries of the literary societies.

### BRECKINRIDGE HALL

This building was erected in 1892, and rebuilt in 1908 in much improved form, having been practically destroyed by fire March 2, 1908. It is a three-story building which furnishes dormitory facilities of the most modern type, with every needed convenience. It is heated with steam, and provision is made for lighting the rooms with gas or electricity.

### YOUNG HALL

This handsome building, completed in 1909, is a memorial to the distinguished presidents of Centre College, Dr. John C. Young and Dr. William C. Young.

The building is 75 by 116 feet, three stories high, and is of Bedford stone and buff pressed brick, with tile roof. The basement story is of cut stone, and the rest of the structure of brick handsomely trimmed with cut stone. The interior of the building is finished with white pressed brick, and the interior wood finish is of yellow pine, with heavy beams and wood ceiling.

The whole building, which is devoted to the work of the departments of Chemistry, Physics and Biology, is admirably fitted for the work for which it is designed, and the student will find here excellent equipment for the work of these departments.

### THE COLLEGE HOME

In this, the oldest building now upon the campus, the whole work of the College was conducted until 1871. This hall represents the glory and the traditions of "Old Centre".

The College Home and the President's home are on the north campus, and face the east, overlooking the beautiful grounds which are used for the summer Chautauqua, and are part of the old campus of the College. The high massive pillars, the broad porch, the white trimmings against the red brick give the College Home a picturesque appearance, and the attractive outlook makes it an ideal center for the College life.

#### THE LIBRARY BUILDING

This building is 64 by 87 feet, two stories in height, and is built of brick, with stone trimmings and tile roof.

The first floor contains the president's offices, the faculty room, two seminar rooms, a stack room, and the boiler room. On the second floor are the reading room, 34 by 85 feet, stack rooms, the librarian's office, and the catalogue room.

The stack rooms contain about 30,000 volumes and are equipped with metal stacks. The building, which is of modified colonial design, furnishes adequate space for the library together with every facility for its effective use.

The building is the gift of Mr. Andrew Carnegie and a special endowment has been provided for its upkeep.

#### THE GYMNASIUM AND COLLEGE UNION

The Boyle-Humphrey-Alumni Gymnasium and College Union was completed in 1915. The building is two stories in height with a full basement, most of the latter being above ground.

The basement story is given wholly to dressing, bath and toilet purposes. The main locker and dressing room is 27 by 45 feet, with communicating toilet room and battery of showers. A room, 27 by 80 feet, is reserved for a swimming pool to be installed later. This room will be used temporarily as a baseball cage. A large dressing room, with separate toilet and shower baths, is arranged for the athletic teams, and another dressing room, with its own equipment of shower baths, is provided for visiting teams. A steam drying room, the physical director's office and measuring room, and the boiler room complete the basement story.



The gymnasium floor is 55 by 80 feet, giving ample space and adequate facilities for basket ball, indoor baseball, volley ball and other indoor games. A running track, supported from the wall by steel beams, circles the gymnasium and serves as a spectator's gallery when needed.

The east end of the building communicates with the gymnasium, but is used separately for the Centre College Union, or student social center. On the first floor is the lounging room. A large fireplace is an attractive feature of this general social room. The offices of the director of physical training are also on this floor, adjoining the lounging room referred to above. The second story contains an assembly room for student meetings, and a large billiard and game room. It is intended that these quarters shall be a real social center for the students of the college, a general resort, in connection with the gymnasium, for amusement and recreation.

## LABORATORIES AND MUSEUM

### CHEMISTRY

The department of chemistry is located on the third floor of Young Hall. Here are laboratories well equipped for the work outlined in this catalogue. A commodious hall connects the various laboratories, the main store room, a lecture room and the private office of the professor. The laboratory for the first year work extends along the entire eastern end of the building. At the west end of the building are laboratories for organic chemistry and qualitative analysis, which are separated from each other and from the private laboratory of the professor by glass partitions. The north side is occupied by a recitation room, a quantitative analysis laboratory and a balance room. A laboratory for physical chemistry is on the first floor.

The desks in all the laboratories are arranged in such fashion that the working surface is unbroken. Through the center of each desk runs a lead-lined trough, into which all the water from the taps falls, these troughs emptying into large alberene stone sinks at the end of each section of desks. The water and gas fixtures

are placed over the center of the troughs, with convenient connections for use on either side of the desks. All desk tops, except those in the laboratory for organic chemistry, which are of alberene stone, are treated with a preparation which makes them practically impervious to reagents. The hoods in all laboratories are equipped with the usual gas and water connections; also with hot water baths.

The main lecture room supplied with modern conveniences, is arranged for seating eighty students. At the lecture desk convenient taps deliver water, coal gas, hydrogen sulphide and compressed air. Experiments with objectionable gases can be performed before the class through the use of a large hood to the rear of the lecture desk.

### PHYSICS

The Department of Physics occupies rooms on the first and second floors of Young Hall. On the second floor are two large laboratories, one for elementary and one for advanced work; also a lecture room seating seventy-five students and supplied with all the ordinary conveniences. On this floor are also a work shop with screw-cutting lathe, drill-press and all necessary tools, the professor's office and the science library.

On the first floor are situated two rooms which can be darkened for photometric and spectroscopic work, a photographic dark room, a room with double walls for constant temperature work, a storage battery room, a laboratory with piers for delicate work in electrical measurements, and a dynamo laboratory. The laboratories are supplied throughout with heavy oak individual tables and equipped with gas, water and compressed air. Alternating current is supplied from the city power plant and direct current from a motor-generator and storage battery. There is a sufficient supply of apparatus for elementary work to allow of the laboratory experiments being conducted on the multiple plan. For more advanced work there is provided a good collection of accurate resistance boxes, sensitive ballistic and dead-beat galvanometers, portable voltmeters and ammeters, Wheatstone bridges, mica and paper condensers, induction coils, spectroscopes, a polariscope, and interferometer, a Sharp-Millar photometer, and other apparatus suitable for accurate measurements.

A complete dynamo laboratory provides facilities for instruction in the care, operation and testing of electrical instruments and apparatus. The laboratory is supplied with alternating current from the town plant and direct current for experimental purposes is obtained from a generator driven by a ten horsepower induction motor. The equipment includes also a double current generator, capable of a great variety of uses, and series, shunt and induction motors. Various types of transformers, meters and arc lamps are represented and all necessary lamp banks, rheostats and portable measuring instruments are provided. A three panel marble switchboard is used to make connections for operating the apparatus under any desired conditions.

### BIOLOGY

The biological laboratories are located on the first and second floors of Young Hall. They include a laboratory for general biology, one for bacteriology and one for animal morphology and histology. There is also a lecture room and a private office for the instructor. The equipment is modern and includes microscopes of the Bausch & Lomb BB4 type, a Minot microtome for paraffine sections, a Bausch & Lomb microtome for celloidin sections, paraffine baths, a growing chamber for plant work, a set of skeletons mounted and disarticulated for work in comparative osteology, and other equipment necessary in a well organized biological department. The bacteriological equipment meets the needs of extended work in this important branch of biological study and includes steam and hot air sterilizers, autoclave incubator, serum inspissator, etc. A number of plaster models of the latest construction provide illustrative material in anatomy.

The lecture rooms of the departments of biology and physics are equipped jointly with a Bausch & Lomb Universal Balopticon. This provides for projection from lantern slides and opaque objects. There are attachments for spectroscopic and microscopic projection.

### MUSEUM

The Museum is well equipped with material for illustrations in all branches of geological study. The typical minerals are



systematically arranged so that one can see by a glance at the labels where each belongs in relation to others; the various ores, with duplicates convenient for study, are provided for critical examinations.

In paleontology, fossils typical of all the epochs are on the shelves and in the work-room for special inspection. The rarer forms, such as *Ichthyosaurus*, *Plesiosaurus*, *Pterodactylus*, *Dinosaurius*, *Glyptodon* and *Megatherium*, are represented by Ward's casts, supplied through the liberality of the late Dr. John W. Scott.

## ATTENDANCE, EXAMINATIONS AND STANDING

### REGISTRATION AND ATTENDANCE

All students should present themselves punctually at the opening of the session in September. Many disadvantages result from late entrance, and in some instances it has been found impossible for a student entering late to maintain his standing in the class. Prompt attendance is, therefore, earnestly enjoined upon all who wish to derive the full benefits of the course of instruction. Prompt and regular attendance is required on all class and laboratory exercises.

### PUBLIC WORSHIP

Devotional exercises, consisting of prayers, hymns and Scripture reading, are conducted in the chapel five times a week, and all the students are required to be present.

### EXAMINATIONS

Examinations of all the classes are held at the close of each semester, and are conducted by the several professors in their departments. Special examinations are held during the year, as needed.

## REPORTS TO STUDENTS AND PARENTS

Reports of each student's scholarship, attendance and general deportment are made to his parents or guardian four times a year. Special reports are made at shorter intervals if there is anything in the student's conduct or standing to call for them. In these reports the student's standing is given by the letters A, B, C, D, E, or F. A represents the highest grade of work, while D indicates the work of the lowest grade for which credit is given. E and F stand for work below the passing grade, E denoting a condition, and F a failure.

When the grade of a student falls below D, the instructor shall report the fact at once to the President, who will send a formal notification of the deficiency to the student. If a second report is made, notification will again be sent to the student, and at the same time his parents or guardian will be informed of the unsatisfactory character of his work.

## CONDITIONS AND FAILURES

A student who is conditioned in any course may remove the condition by passing a satisfactory re-examination upon the work of the semester, or, in the discretion of the instructor, by doing additional work. A student conditioned in a required course must repeat that course with the class the next time such course is given, unless the condition is removed previous to that time. Unless a condition in an elective course has been previously removed, that course must be repeated with the class, or an equivalent elective course must be taken in class. The repeated or substituted course must be taken the first time such course is given after the condition is incurred.

A failure can be removed only by repeating the course in class, or, in the case of an elective course, by taking an equivalent elective course. The repeated or substituted course must be taken the first time such course is given after the failure is incurred.

A fee of \$2.00 shall be charged for each re-examination to remove a condition incurred by a failure to make a passing grade. This fee must be paid at the College office and the receipt therefor shown to the instructor before the examination may be taken. Re-examinations may be taken at dates arranged with the instructor. Only a passing grade may be given on a re-examination.

When the mark "Abs." has been reported and the student's absence from examination excused by the President, he shall have the right to an examination on payment of a fee of \$2.00, receipt for which must be shown to the instructor before the examination may be taken.

A student absent from an examination without being excused shall be conditioned in that course. For the special examination to remove a condition incurred in this way, a fee of \$5.00 will be charged. This fee must be paid at the College office, and the receipt shown to the instructor before the re-examination can be taken.

## ABSENCES AND EXCUSES

Every absence from recitation shall count a zero in the determination of grades unless all omitted work is made up to the satisfaction of the instructor. Opportunity to make up such omitted work shall be given only when the instructor is satisfied that there is good reason for the absence.

If the work made up consists of lectures, laboratory practice, written recitations, or other work requiring the supervision of an instructor, a charge of fifty cents for each hour so occupied shall be made. The necessary amount must be paid in advance at the College office and the receipt presented to the instructor before the work can be made up.

Absences on account of contests and conventions away from Danville under the sanction of the faculty will not entail absence penalties provided all omitted work is made up promptly.

## PRIZES

### THE HENRY BARRET BOYLE PRIZE

The Henry Barret Boyle Prize, established by Gen. J. T. Boyle, is annually awarded to the best Latin student of the Sophomore class, provided that the contestant's work in every other department is of high order. The prize consists of a valuable gold watch appropriately engraved. The award is publicly made by the President on Commencement Day.

## THE ORMOND BEATTY ALUMNI PRIZE

In 1886 the alumni of Centre College contributed a fund of \$1,000 to signalize the completion of President Beatty's fifty years' service to his alma mater. The annual interest on this fund is publicly awarded on Commencement Day to the student of the Senior class who has the best record for punctuality, deportment and scholarship. In determining this award account is taken of Senior work only.

## ORATORICAL PRIZE

An oratorical contest between the literary societies is held on February 22. A gold medal is given by the College to the successful contestant.

## THE WILLIAM ERNST PRIZE

This prize has been offered by the Hon. Richard P. Ernst, of Covington, as a memorial of his father, Mr. William Ernst. The gift, amounting to \$75.00, is awarded in three prizes of \$25.00 each to the three ranking men in the Inter-Society debate.

# ADMISSION TO THE COLLEGE

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The requirement for entrance to Freshman class is fifteen units.

**ADMISSION BY EXAMINATION.**—Candidates for the Freshman class, who are not graduates of an accredited school, will be examined on the subjects necessary for entrance to the particular course chosen.

**ADMISSION BY CERTIFICATE.**—Graduates of accredited schools are admitted to the Freshman class upon presentation of a certificate issued by the superintendent or principal. Blank certificates can be obtained by applying to the President, Centre College, Danville, Ky.

No college credit will be given for high school work except upon examination, and the successful completion of a year of advanced work in the subject in which the examination was taken.

Accredited schools are divided into two classes known as classes A and B.

Class A includes schools which meet the following requirements: A four-year course of study, requiring sixteen units for graduation, at least fifteen of which are college entrance units; three qualified teachers devoting all their time to high school work; a minimum of forty minutes to each recitation; a school year of not less than thirty-six weeks; an equipment of not less than \$150.00 in value for teaching science; a reference library of not less than \$75.00 in value, exclusive of public documents; a progressive school spirit and sentiment; classes not too large for good work, and whose work is recognized as satisfactory. Class B includes schools which are lacking in one or more of the above requirements and which offer fifteen or more college entrance units for graduation and whose work is considered satisfactory, provided that no school shall be admitted to this class which does not have two qualified teachers devoting full time to high school work; an equipment of not less than \$75.00 in value for teaching science; a reference library of not less than \$60.00 in value, exclusive of public documents; and sufficient time given to each recitation for satisfactory class work.

# ACCREDITED PUBLIC HIGH SCHOOLS

## CLASS A

<i>Location</i>	<i>Name of School</i>
Alexandria -----	County High School
Anchorage -----	High School
Ashland -----	High School
Auburn -----	County High School
Augusta -----	High School
Bellevue -----	High School
Bowling Green -----	W. Ky. Normal
Bowling Green -----	High School
Carlisle -----	High School
Carrollton -----	High School
Central City -----	High School
Catlettsburg -----	High School
Corydon -----	High School
Covington -----	High School
Cynthiana -----	High School
Danville -----	High School
Dawson Springs -----	High School
Dayton -----	High School
Earlington -----	Atkinson Memorial
Elizabethtown -----	High School
Eminence -----	High School
Falmouth -----	High School
Flemingsburg -----	High School
Fort Thomas -----	Highlands High School
Frankfort -----	High School
Franklin -----	High School
Fulton -----	High School
Georgetown -----	High School
Glasgow -----	High School
Grayson -----	Prichard High School
Greenville -----	High School
Hardinsburg -----	High School
Harrodsburg -----	High School
Hartford -----	College (High School)
Hazard -----	Graded High School



<i>Location</i>	<i>Name of School</i>
Henderson -----	High School
Hickman -----	High School
Hodgenville -----	High School
Hopkinsville -----	High School
LaCenter -----	County High School
LaGrange -----	County High School
Lancaster -----	High School
Lawrenceburg -----	County High School
Lawrenceburg -----	City High School
Lebanon -----	High School
Lexington -----	High School
Louisa -----	High School
Louisville -----	Boy's High School
Ludlow -----	High School
Madisonville -----	High School
Marion -----	High School
Mayfield -----	High School
Mayslick -----	County High School
Maysville -----	High School
Middlesboro -----	High School
Midway -----	High School
Monticello -----	High School
Mt. Sterling -----	High School
Mt. Vernon -----	Graded High School
Morganfield -----	High School
Murray -----	High School
Newport -----	High School
Nicholasville -----	High School
Owensboro -----	High School
Owenton -----	High School
Paducah -----	High School
Paris -----	High School
Pineville -----	High School
Princeton -----	High School
Richmond -----	Caldwell High School
Richmond -----	Model High School
Richmond -----	E. Ky. Normal
Shelbyville -----	High School
Somerset -----	High School
Springfield -----	High School

<i>Location</i>	<i>Name of School</i>
Stanford -----	High School
Sturgis -----	High School
Walton -----	High School
Winchester -----	High School
Winchester -----	County High School
Wingo -----	High School

## CLASS B

Adairville -----	County High School
Arlington -----	High School
Athens -----	County High School
Barbourville -----	High School
Bardstown -----	High School
Barlow -----	High School
Beaver Dam -----	West Ky. Seminary
Bedford -----	County High School
Benton -----	High School
Bethlehem -----	County High School
Bradsfordsville -----	High School
Brandenburg -----	County High School
Brodhead -----	High School
Brooksville -----	High School
Buffalo -----	High School
Burkesville -----	High School
Burlington -----	County High School
Butler -----	High School
Cadiz -----	High School
Calhoun -----	High School
Campbellsville -----	County High School
Caneyville -----	High School
Clarkson -----	High School
Clay -----	High School
Clinton -----	County High School
Cloverport -----	High School
Columbia -----	High School
Corbin -----	High School
Corinth -----	Graded High School
Crab Orchard -----	Graded High School
Crutchfield -----	County High School



<i>Location</i>	<i>Name of School</i>
Dixon -----	High School
Dry Ridge -----	County High School
Edmonton -----	County High School
Ekron -----	High School
Elkton -----	High School
Erlanger -----	High School
Ewing -----	Graded High School
Farmington -----	Graded High School
Fauconer (Lexington R. R.) -----	County High School
Florence -----	Graded High School
Fordsville -----	High School
Fulghum -----	County High School
Ghent -----	High School
Glendale -----	High School
Greendale -----	County High School
Greenup -----	Graded High School
Guthrie -----	High School
Harlan -----	County High School
Hawesville -----	Beechmont High School
Heath -----	County High School
Horse Cave -----	High School
Howes Valley -----	County High School
Hustonville -----	High School
Independence -----	High School
Junction City -----	High School
Kirksville -----	Graded High School
Lebanon Junction -----	High School
Leitchfield -----	High School
Lewisburg -----	County High School
Lexington (Picadome) -----	County High School
Little Rock -----	High School
Livermore -----	High School
London -----	High School
Lowes -----	County High School
McHenry -----	Central Park H. S.
Mackville -----	County High School
Middleburg -----	High School
Minerva -----	County High School
Morgantown -----	High School
Mt. Olivet -----	County High School

<i>Location</i>	<i>Name of School</i>
Mt. Sterling -----	County High School
Munfordville -----	High School
New Castle -----	High School
Olmstead -----	County High School
Owensboro -----	County High School
Owingsville -----	High School
Paint Lick -----	County High School
Paintsville -----	High School
Pembroke -----	High School
Perryville -----	County High School
Prestonburg -----	County High School
Providence -----	High School
Rich Pond -----	County High School
Russell -----	Graded High School
Russell Cave -----	County High School
Science Hill -----	Graded High School
Scottsville -----	High School
Sedalia -----	High School
Sebree -----	High School
Sharpsburg -----	High School
Smithland -----	County High School
Smith's Grove -----	County High School
Stamping Ground -----	High School
St. Helens -----	High School
Sylvan Shade (Hickman R. R.) -----	County High School
Taylorsville -----	Graded High School
Tompkinsville -----	High School
Troy -----	County High School
Union City -----	County High School
Uniontown -----	County High School
Upton -----	Graded High School
Utica -----	County High School
Vanceburg -----	County High School
Vanceburg -----	High School
Versailles -----	High School
Vine Grove -----	High School
Waco -----	County High School
Warsaw -----	High School
Water Valley -----	County High School
West Liberty -----	High School

<i>Location</i>	<i>Name of School</i>
West Point -----	High School
Whitesville -----	County High School
Whitely City -----	County High School
Williamstown -----	High School
Wickliffe -----	High School

## ACCREDITED PRIVATE INSTITUTIONS

## CLASS A

Barbourville -----	Union College
Bowling Green -----	Odgen College
Campbellsville -----	Russell Creek Academy
Columbia -----	Lindsey-Wilson
Elkton -----	Vanderbilt Training
Frenchburg -----	High School
Jackson -----	Collegiate Institute
London -----	Sue Bennett Memorial
Lyndon -----	Ky. Military Institute
Louisville -----	Training School
Louisville -----	St. Xavier
Millersburg -----	Military Institute
Morehead -----	Normal School
Nicholasville -----	Threlkeld's Boys' School
Paintsville -----	Sandy Valley Seminary
Pikeville -----	Pikeville Academy
Russellville -----	Bethel College Preparatory
Russellville -----	Logan Academy
St. Mary's -----	St. Mary's College
Stanton -----	Stanton College
Williamsburg -----	Cumberland College
Wilmore -----	Asbury College Academy

## CLASS B

Barbourville -----	Baptist Institute
Campbellsburg -----	High School
Clinton -----	Marvin University School
Franklin -----	Training School
Hazel Green -----	Hazel Green Academy
Guerrant -----	Highland School
North Middletown -----	C. & B. College
Oneida -----	Baptist Institute
Salyersville -----	Magoffin Institute

## ENTRANCE REQUIREMENTS

## Total Requirements: 15 Units

Every candidate for a degree must offer the following:

English .....	3	units
Mathematics .....	2½	units
History .....	1	unit
Science .....	1	unit
A foreign Language.....	2	units
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Total .....	9½	units

Candidates for the degree of Bachelor of Arts must offer four units of foreign language, at least two of which must be in Latin. Not more than four units may be offered in one subject.

To complete the total requirements of fifteen units, choice may be made from the following subjects:

Latin .....	1	to 4	units
Greek .....	1	to 3	units
German .....	1	to 3	units
French .....	1	to 3	units
Spanish .....	1	to 2	units
History and Civil Government.....	1	to 3	units
Solid Geometry .....		½	unit
Trigonometry .....		½	unit
Agriculture .....		½	unit
Botany .....	½	to 1	unit
Chemistry .....		1	unit
Geology .....	½	to 1	unit
Physics .....		1	unit
Physical Geography .....	½	to 1	unit
Physiology .....		½	unit
Drawing .....	½	to 1	unit
Manual Training .....		½	unit
Commercial Arithmetic .....		½	unit
Psychology .....		½	unit
Political Economy .....		½	unit
Zoology .....		½	unit
General Science .....		½	unit

A unit is one-fourth of a year's work in the high school.

Not more than four units in vocational studies may be offered.

ENTRANCE REQUIREMENTS IN THE SEVERAL  
SUBJECTSI. *English*

The requirement in English includes (1) ability on the part of the applicant to express himself in writing in a clear and accurate manner, and (2) ability to appreciate the qualities that mark a work as being literature. Evidence of some power of literary appreciation, even despite ignorance of particular books or authors, will be held more acceptable than unappreciative literary learning.

*Grammar and English Composition.*—The applicant ought to be familiar with the essential principles of English Grammar. He must also possess the ability to write in a plain and natural style short compositions upon subjects familiar to him, correct in spelling, punctuation, grammar, idiom, and division into paragraphs. One unit.

*Reading in Literature.*—These readings are divided into two classes, books intended for thorough study and practice, and books intended merely for general reading. Two units.

(a) For study and practice.—The books provided for study are arranged in four groups, from each of which one selection is to be made.

GROUP I. *Drama.* Shakespeare's Julius Caesar, Macbeth, Hamlet.

GROUP II. *Poetry.* Milton's L'Allegro, Il Penseroso, and either Comus or Lycidas;

Tennyson's the Coming of Arthur, The Holy Grail, and The Passing of Arthur;

The selections from Wordsworth, Keats, and Shelley in Book IV of Palgrave's Golden Treasury (First Series).

GROUP III. *Oratory.* Burke's Speech on Conciliation with America;

Macaulay's Speeches on Copyright and Lincoln's Speech at Cooper Union;

Washington's Farewell Address and Webster's First Bunker Hill Oration.

GROUP IV. *Essays.* Carlyle's Essay on Burns, with selection from Burns's Poems;

Macaulay's Life of Johnson;

Emerson's Essay on Manners.

(b) For general reading. With a view to large freedom of choice, the books provided for reading are arranged in the following groups, from each of which at least two selections are to be made, except as otherwise provided under Group I.

GROUP I. *Classics in Translation.* The Old Testament, comprising at least the chief narrative episodes in Genesis, Exodus, Joshua, Judges, Samuel, Kings, and Daniel, together with the books of Ruth and Esther; The Odyssey, with the omission, if desired, of Books I, II, III, IV, V, XV, XVI, XVII; The Iliad, with the omission, if desired, of Books XI, XIII, XIV, XV, XVII, XXI; The Aeneid.

(The Odyssey, Iliad, and Aeneid should be read in English translations of recognized literary excellence.)

For any selection from this group a selection from any other group may be substituted.

GROUP II. *Shakespeare.* Midsummer Night's Dream, Merchant of Venice, As You Like It, Twelfth Night, The Tempest, Romeo and Juliet, King John, Richard II, Richard III, Henry V, Coriolanus, Julius Caesar, Macbeth, Hamlet.

GROUP III. *Prose Fiction.* Malory's Morte d'Arthur (about 100 pages); Bunyan's Pilgrim's Progress, Part I, Swift's Gulliver's Travels (voyages to Lilliput and to Brobdingnag); Defoe's Robinson Crusoe, Part I; Goldsmith's Vicar of Wakefield; Frances Burney's Evelina; Scott's Novels: any *one*; Jane Austen's Novels: any *one*; Maria Edgeworth's Castle Rackrent or The Absentee; Dickens' Novels: any *one*; Thackeray's Novels; any *one*; George Eliot's Novels: any *one*; Mrs. Gaskell's Cranford; Kingsley's Westward Ho! or Hereward, the Wake; Reade's The Cloister and the Hearth; Blackmore's Lorna Doone; Hughes's Tom Brown's School Days; Stevenson's Treasure Island, or Kidnapped, or Master of Ballantrae; Cooper's Novels: any *one*; Poe's Selected Tales; Hawthorne's The House of the Seven Gables or Twice Told Tales or Mosses from an Old Manse.

A collection of Short Stories by various standard writers.

GROUP IV. *Essays, Biography, etc.* Addison and Steele's The Sir Roger de Coverley Papers or Selections from the *Tatler* and *Spectator* (about 200 pages); Boswell's Selections from the Life of Johnson (about 200 pages); Franklin's Autobiography; Irving's Selections from the Sketch Book (about 200 pages) or Life of



Goldsmith; Southey's *Life of Nelson*; Lamb's *Selections from the Essays of Elia* (about 100 pages); Lockhart's *Selections from the Life of Scott* (about 200 pages); Thackeray's *Lectures on Swift, Addison, and Steele in the English Humorists*; Macaulay: any one of the following essays: *Lord Clive*, *Warren Hastings*, *Milton*, *Addison*, *Goldsmith*, *Frederic the Great*, *Madame d'Arblay*; Trevelyan's *Selections from the Life of Macaulay* (about 200 pages); Ruskin's *Sesame and Lilies or Selections* (about 150 pages); Dana's *Two Years Before the Mast*; Lincoln's *Selections*, including at least the two Inaugurals, the *Speeches in Independence Hall* and at *Gettysburg*, the *Last Public Address*, the *Letter to Horace Greeley*, together with a brief memoir or estimate of Lincoln; Parkman's *The Oregon Trail*; Thoreau's *Walden*; Lowell's *Selected Essays* (about 150 pages); Holmes's *The Autocrat of the Breakfast Table*; Stevenson's *An Inland Voyage and Travels with a Donkey*; Huxley's *Autobiography and selections from Lay Sermons*, including the addresses on *Improving Natural Knowledge*, *a Liberal Education*, and *a Piece of Chalk*; a collection of *Essays by Bacon, Lamb, De Quincey, Hazlitt, Emerson, and later writers*; a collection of *Letters by various standard writers*.

GROUP V. *Poetry*. Palgrave's *Golden Treasury* (First Series), Books II and III, with special attention to Dryden, Collins, Gray, Cowper, and Burns; Palgrave's *Golden Treasury* (First Series), Book IV, with special attention to Wordsworth, Keats, and Shelley (if not chosen for study under A); Goldsmith's *The Traveller* and *The Deserted Village*; Pope's *The Rape of the Lock*; A collection of English and Scottish Ballads, as for example, some *Robin Hood Ballads*, *The Battle of Otterburn*, *King Estmere*, *Young Beichan*, *Bewick* and *Grahame*, *Sir Patrick Spens*, and a selection from later Ballads; Coleridge's *The Ancient Mariner*, *Christabel*, and *Kubla Khan*; Byron's *Childe Harold*, *Canto III or IV*, and *The Prisoner of Chillon*; Scott's *The Lady of the Lake* or *Marmion*; Macaulay's *The Lays of Ancient Rome*, *The Battle of Naseby*, *The Armada*, *Ivry*; Tennyson's *The Princess*; or *Gareth and Lynette*, *Lancelot and Elaine*, and *the Passing of Arthur*; Browning's *Cavalier Tunes*, *The Lost Leader*, *How They Brought the Good News from Ghent to Aix*, *Home Thoughts from Abroad*, *Home Thoughts from the Sea*, *Incident of the French*



Camp, Herve Riel, Pheidippides, My Last Duchess, Up at a Villa—Down in the City, The Italian in England, The Patriot, The Pied Piper, "De Gustibus—," Instans Tyrannus; Arnold's Sohrab and Rustum, and The Forsaken Merman; Selections from American Poetry, with special attention to Poe, Lowell, Longfellow, and Whittier.

*The applicant must present an explicit statement from his instructor that the entire requirement has been fulfilled.*

**History of English Literature.** The applicant who offers four units in English composition and literature should have pursued the study throughout the four years of the high school course. In addition to the foregoing requirements, his preparation should include a systematic study of the outlines of English literary history. Due emphasis should be laid upon the division of the subject into periods; and the leading characteristics of each period should be studied, and, as far as is practicable, illustrated by the reading of representative authors. Any of the current manuals of English literature may serve as a basis for this part of the course. The historical study should, however be associated as closely as possible with the reading of classics. One unit.

## II. Mathematics

### a. ALGEBRA

The four fundamental operations for rational algebraic expressions; factoring, determination of highest common factor and lowest common multiple by factoring; fractions, including complex fractions; ratio and proportion; linear equations both numerical and literal, containing one or more unknown quantities; problems depending on linear equations; radicals, including the extraction of the square root of polynomials and of numbers. One unit.

### b ALGEBRA. QUADRATICS AND BEYOND

Exponents, including the fractional and negative; quadratic equations, both numerical and literal containing one unknown; simultaneous quadratic equations; problems depending upon quadratic equations, the binomial theorem for positive integral exponents, the formulas for the  $n$ th term and the sum of the terms of arithmetic and geometric progressions, with applications; and graphs. One unit.

Two units will not be allowed for Algebra unless the subject is taken two full school years with five recitations a week.

## c. PLANE GEOMETRY

The usual theorems and constructions of good text-books, including the general properties of plane rectilinear figures; the circle and the measurement of angles; similar polygons; areas; regular polygons and measurement of the circle. The solution of numerous original exercises, including locus problems. One unit.

## d. SOLID GEOMETRY

The usual theorems and constructions of good text-books, including the relations of planes and lines in space; the properties and measurement of prisms, pyramids, cylinders and cones; the sphere and the spherical triangle, the solution of numerous original exercises including locus problems; application to the mensuration of surfaces and solids. One-half unit.

## e. PLANE TRIGONOMETRY

General definitions of the functions, the relations of the functions, the solution of trigonometric equations, development of formulae, and the solution of triangles. One-half unit.

III. *Latin*

1. Grammar and Prose Composition. Translation into Latin of simple English sentences. One unit.

2. Caesar, Gallic War, Books I-IV, with questions on forms, the constructions and subject matter. One unit.

3. Virgil, Aeneid, Books I-VI, with questions on the constructions, subject-matter and prosody. One unit.

4. Cicero. Six orations, with prose composition continued. One unit.

IV. *Greek*

Xenophon. Anabasis. Books I, II, III, IV.

Grammar. Goodwin or equivalent. A knowledge of Attic inflection and of the principles of syntax is essential.

Prose composition. Collar and Daniell or equivalent. Ability to put English into Greek, *with accent*, is necessary. Two units.

V. *German*

The requirements for entrance into the Freshman Class in this subject correspond to those of the majority of the better institutions of the country, as they have been suggested by the Modern Language Association of America.

The examination will be upon the following subjects, and presupposes the reading of two hundred duodecimo pages of easy prose.

1. *Grammar.* A thorough knowledge of the forms, and familiarity with the commoner usages of syntax.

2. *Composition.* The ability to translate simple English sentences into idiomatic German.

3. *Reading.* The candidate will be asked to translate at sight a German selection containing no unusual words.

4. *Pronunciation.* The reading aloud of ten lines of easy prose.

The department would call the attention of teachers to the excellent report of the "Committee of Twelve" of the Modern Language Association, which contains a full discussion of the methods, outline of courses, etc., and which will be sent by the department upon receipt of twenty cents to all teachers desiring a copy.

The importance of a thorough knowledge of the rudiments of the grammar, as contained in Bierwirth's or Vos's *Essentials of German Grammar*, can not be too severely insisted upon. The work should comprise: (1) Careful drill upon pronunciation. (2) The memorizing and frequent recitation of easy colloquial sentences. (3) Drill upon the inflection of the articles, of such nouns as belong to the language of every-day life, of adjectives both strong and weak, pronouns, weak verbs and the more usual strong verbs, such as *gehen, sprechen, finden, sehen, kommen, fahren*, etc., also upon the use of the more common prepositions, the simpler uses of the modal auxiliaries; and the elementary rules of syntax and word order. (4) Abundant easy exercises for the purposes both of fixing in the mind the forms and principles of grammar and to cultivate readiness in the reproduction of natural forms of expression. This includes the ability to read and write German script. (5) The reading of two hundred pages of easy prose, with constant practice in translating into German easy variations upon the sentences read or the reproduction of the sentences from memory. The necessary reading matter may be found in any standard graduated reader, or in such stories as Storm's *Immensee*, Gerstacker's *Germelshausen*, or similar text. Two units.

## VI. *French*

(1) Translation of ordinary simple French prose into idiomatic English. It is believed that the ability to translate simple

prose can be acquired by careful reading of not less than three hundred and fifty duodecimo pages chosen from the work of several authors. (2) Translation of simpler English sentences into French. This requirement presupposes careful training in elementary French grammar. This includes the conjugation of regular verbs, of the more common irregular verbs, such as voir, dire, tenir, aller, savoir, faire, pouvoir, as well as the classes represented by connaître, conduire, dormir, ouvrir, craindre; the inflection of nouns and adjectives for gender and number, except rare cases; uses of articles and partitive construction; the forms and positions of the personal pronoun, the uses of other pronouns and of interrogative, possessive, and demonstrative adjectives. (3) The ability to pronounce French with a fair degree of accuracy. One unit.

#### VII. *Advanced German, French and Spanish*

Candidates for the higher classes than the Freshman in German and those who desire advanced credits in French and Spanish are required to stand an examination on all work previously done by the class which they desire to enter. The attention of teachers in high schools is called to the fact that examinations for advanced standing in all courses in this department include the history of the country whose language is being studied as contained in any of the volumes of "History of the Nation Series" (Putnam) or works of like scope. The entrance examination in second year Spanish includes the History of the Moors in Spain.

#### VIII. *History*

Preparation in history will be given credit upon the basis of time devoted to the study of each branch of the subject, rather than upon the amount of the ground covered.

It is recommended that not less than one year be given to any of the courses outlined below. The training in history should require comparison and the use of judgment on the pupil's part, rather than the mere use of memory. The use of good text-books, collateral reading, practice in writing, and accurate geographical knowledge are essential. One unit in Ancient and Mediaeval History and one unit in Modern History with emphasis on English History will be accepted, but General History will not be accepted.

- a. Ancient History (to 800 A. D.)—One unit.
- b. Mediaeval and Modern History—One unit.
- c. English History—One unit.
- d. American History and Government—One unit.

## IX. *Science*

### a. PHYSICS

The preparation in physics should include individual laboratory work, comprising at least forty exercises, twenty of them quantitative; instruction by lecture table demonstrations, to be used mainly as a basis for questioning upon the general principles involved; and the study of at least one standard text-book, to the end that the pupil may gain a comprehensive and connected view of the most important facts and laws of elementary physics. One unit.

### b. CHEMISTRY

The preparation in chemistry should be conducted upon the same general plan suggested for the work in physics. One unit.

### c. PHYSICAL GEOGRAPHY

The preparation in physical geography should include the study of at least one of the modern text-books, accompanied by field work. One-half to one unit.

### d. PHYSIOLOGY

The preparation in physiology should include a study of the nature of foods and their history in the body; the essential facts of digestion, absorption, circulation, secretion, excretion, and respiration; the motor, nervous, and sensor functions; and the structure of the various organs by which these operations are performed. A note-book with careful outline drawing of the chief structures studied anatomically together with explanations of these drawings, and the study of a good text-book are essential. One-half unit.

### e. BOTANY

The preparation in botany should include a study of the structure and elementary physiology of the seed plants; ecology, the natural history of the plant groups, and classification. The laboratory method of instruction should be emphasized, but not further than it can be done with a simple magnifier. Accurate drawings and concise notes should be prepared by the student. One-half unit.



*f. ZOOLOGY*

The preparation in zoology should be along the same lines as those laid down for botany. It should be such as to render the student familiar with the salient characteristics of each of the animal sub-kingdoms. This can be accomplished only by a laboratory study of at least one type of animal under each sub-kingdom. One-half unit.

*g. GENERAL SCIENCE*

One-half year's work with satisfactory text. General Science must be preliminary to any other work in science, and will be accepted only when so taken.

*X. Drawing*

Candidates must submit a complete set of drawings, made under the supervision of a teacher of drawing and properly certified by him. These drawings should show ability in the candidate to execute plain lettering, to make orthographic sketches of machine parts, and orthographic projection. One-half to one unit.

*XI. Shop Work*

Thorough manual training in wood work. A note-book containing description and sketches of work done is required. One-half unit.

## ADVANCED STANDING

Candidates for advanced standing are examined in the studies which have been pursued by the class which they propose to enter or in others equivalent to them.

Those who have been members of other colleges must present certificates of regular dismission, and they will be given credit for the studies pursued. Those bringing letters of dismission from colleges having the same or equal requirements for admission with Centre College and which offer the same or equal courses of study, will be admitted without examination, to the standing they have held in the institution from which they come.

No student will be admitted as a candidate for a college degree later than the beginning of the Senior year.

No college credit will be given for high school work except upon examination, and the completion of a year of advanced work in the subject in which the examination was taken.

## REQUIREMENTS FOR DEGREES

### 1. *Amount of Work Required for the Bachelor's Degree.*

The student must complete satisfactorily 124 semester hours. A semester hour is one recitation period a week, or its equivalent, pursued for a semester. The 124 credits earned by the completion of 124 semester hours are called quantity credits. No student may carry more than 17 semester hours at any time.

### 2. *Quality of Work Required for the Bachelor's Degree.*

The student must earn at least 120 quality credits. Three quality credits are given for each semester hour's work completed with grade A; two quality credits for each semester hour with grade B; one quality credit for each semester hour of grade C. This means that an average grade of C must be maintained on all of the work of the four years. For each 75 quality credits one quantity credit towards graduation is given.

The required 124 semester hours are to be made up as follows:

1. Not less than 24 or more than 32 semester hours in a major subject chosen not later than the middle of Sophomore year. Work done in the major subject previous to such choice is counted as part of the required 24 semester hours. The head of the department in which a student chooses his major becomes his adviser at the time of choice.

2. Six semester hours of English.

3. Eight semester hours of Mathematics.

4. Six semester hours of Psychology or Logic.

5. Eight semester hours of Bible.

6. At least 14 semester hours in each of the following groups of subjects. The requirements in each group must be divided between at least two subjects and can not be counted towards the major. The required English and Bible do not count in the satisfaction of group requirements.

GROUP I.	GROUP II.	GROUP III.
English	Bible	Mathematics
Greek	Education	Biology
Latin	History	Chemistry
German	Psychology and	Physics
French	Philosophy	
Spanish	Social Science	



7. For the degree of Bachelor of Arts 24 semester hours of foreign language in addition to entrance requirements, must be completed, at least eight of which shall be in either Greek or Latin. A student who offers only two units of Latin for entrance must complete 14 semester hours of Latin or Greek.

8. For the degree of Bachelor of Science, 24 semester hours of science are required. This requirement must be divided between at least two sciences. The major must be in mathematics or a science.

9. The remaining hours necessary to complete the requirement of 124 semester hours may be chosen as free electives.

Majors are offered in the following subjects: (1) English; (2) Greek; (3) Latin; (4) German and French; (5) History and Social Science; (6) Mathematics; (7) Biology; (8) Chemistry; (9) Physics.

### Freshman Studies

	1st Semester	2nd Semester
English -----	3 hours-----	3 hours
Foreign Language -----	3 or 4 hours-----	3 or 4 hours
Mathematics or Science -----	4 hours -----	4 hours
Bible -----	1 hour-----	1 hour
Elective -----	3 or 4 hours-----	3 or 4 hours

### CLASSIFICATION

For promotion to the Sophomore, Junior or Senior class the student must have at least as many quality as quantity credits. Promotion in the seating of students in chapel will be upon the same basis as promotion for catalogue classification in the number of both quantity and quality credits. Classification is determined in September of each year.

For Promotion to the Sophomore class a student must have 26 quantity and at least 26 quality credits; for promotion to the Junior class he must have 56 quantity credits and at least 56 quality credits; for promotion to the Senior class he must have 88 quantity credits and at least 88 quality credits.

## ABSENCES

If a student has a total of more than 3 unexcused absences from class in a single semester, one quality credit will be deducted for each unexcused absence in excess of three.

If a student has more than 3 unexcused absences from chapel, in a single semester, one quality credit will be deducted for each unexcused absence in excess of three.

In case a student loses a total of fifteen quality credits in a single semester because of unexcused absences, one quantity credit will be added to the number of quantity credits required for graduation.

If a student's unexcused absences in any course exceed ten per cent of the classroom or laboratory exercises in that course in a single semester, he shall be marked F in that course.

### Requirements for the Degree of Master of Arts

Bachelors of the several courses of the academic department of Centre College, or graduates of other institutions having requirements for the baccalaureate degree which are substantially equivalent, may be enrolled in the Graduate Department as candidates for the degree of Master of Arts.

Application for enrollment must be made in writing to the Committee on Graduate Studies at the beginning of the collegiate year in which the degree is to be taken.

With the application an outline of the candidate's intended course of graduate study must be submitted, together with the signed approbation of the professors with whom he expects to work. This choice of subjects is final.

The tuition fee of the Graduate Department is \$100.00, payable in advance in two installments at the opening of each semester. In addition, a diploma fee of \$10.00 is charged, payable when the thesis is submitted for examination.

The degree of Master of Arts will be conferred upon those candidates who, having complied with the above requirements, shall have completed the required graduate work as follows:

1. They shall have completed to the satisfaction of the professors in charge a course of graduate study, which is the equivalent of fifteen hours of class work a week.

2. This course shall be pursued at this College during a

residence of not less than one collegiate year. Work "in absentia" will not be recognized towards a degree.

3. This course of study shall consist of a principal subject (major) and a subsidiary subject (minor).

4. The Major and the Minor subjects must be chosen with the consent of the Committee on Graduate Studies, in different but related departments.

5. The courses must be of an advanced character and the work done by a candidate show zeal and ability. No subject counted for the baccalaureate degree or towards a professional degree will be counted for the Master's degree.

6. Of the fifteen hours of required work a week, five hours shall be devoted to the minor subject.

7. Not later than three weeks before Commencement the candidate must submit to the Committee on Graduate Studies a thesis approved by the professor in charge of the major course.

8. The candidate's thesis having been approved by the committee, he must pass a satisfactory examination before a board of three examiners, consisting of the professors in charge of the candidate's major and minor subjects and a representative of the Committee on Graduate Studies. The signatures of the three members of the examining board must appear on the report of the examination to the President of the College.

9. Before the successful candidate receives his diploma he must deposit in the College Library a typewritten copy of his thesis, properly bound.

# Courses of Instruction

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Courses marked with an asterisk may be counted towards the Master's degree.

## I. BIBLICAL HISTORY AND LITERATURE

PROFESSOR CHEEK

All students of the College are required to take courses of study in the English Bible, securing eight credits in this subject before receiving a degree. The following courses will be given together with such new courses as may be developed:

### 1-2 *The Gospels*

An inductive study of the life of Christ. Texts, the Revised Version and Stalker's *Life of Christ*.

### *The Pauline Epistles*

A study of several of the epistles. Stalker's *Life of Paul*. One hour, two semesters, Freshman year.

### 3 *Old Testament History*

The general course of the political, social and religious history of the Hebrews. Texts, the Revised Version and Blaikie's *Manual of Bible History*. Three hours, second semester, Sophomore year.

## II. BIOLOGY

PROFESSOR RAINEY

MR. PRYOR and MR. PENNINGTON, Assistants

### 1 *Elementary Zoology*

A study of the fundamental principles of biology, the properties of protoplasm, the structure and development of the cell, metabolism, growth and reproduction are discussed and laboratory study of forms illustrative thereof. Four hours, first semester.

### 2 *Vertebrate Zoology*

A study of the anatomy and physiology of the vertebrate animal accompanied by the dissection of the frog in the laboratory. Four hours, second semester.

### 3-4 *Mammalian Anatomy*

The dissection of the cat or rabbit is made the basis of this course. Comparative study of the structures of organs of other mammals accompany this dissection and particular attention is given to the osteology of the human form. Three hours, first and second semester. Given in 1919-20.

### 5 *Economic Entomology*

This course will include a study of the morphology and life history of such of the insects as have a marked economic relationship to agricultural and sanitary science. It is intended primarily for such students as are expecting to study agriculture. The class will not be formed unless at least five students apply for it. Three hours, first semester.

### 6 *Plant Physiology*

This course includes a study of the life processes of plants and their relation to environment, as soil, atmosphere, water supply, etc. The same conditions apply as to course 5. Three hours, second semester.

### 7 *General Bacteriology*

A general course in the study of bacteria. The preparation of culture media, and the general morphology and physiology of the schizomycetes. Three hours, first semester.

### 8 *Economic Bacteriology*

This course may be varied to meet the needs of the individual pupil. The emphasis may be placed: (1) On the sanitary aspects of the subject; (2) On its application to soils and agricultural processes; (3) On its relation to human pathology. Three hours, second semester.

### 9-10 *Histology*

In this course attention is given to the technique of the preparation of animal tissue for microscopical study. Study is also given to the morphology of elementary tissues, and to the structure of organs and systems of the animal body. Three hours, first and second semester. Given 1920-21.

### 11-12 *Evolution and Heredity*

A lecture course accompanied by assigned reading, on the evidences of the doctrine of organic evolution and the various theories of heredity. The topics of variation, adaptation and

other problems that arise in connection with evolutionary biology are discussed and considerable attention is given to their application to plant and animal breeding and to eugenics. Courses 1 and 2 are prerequisites. One hour, first and second semesters.

### III. CHEMISTRY

PROFESSOR COOLIDGE

MR. VOGEL AND MR. SANFORD, Assistants

A deposit of two and one-half dollars (\$2.50) is required of each student.

#### 1-2 *General Chemistry*

This course deals with the fundamentals of the science. Lectures, recitations, and laboratory work. Four hours throughout the year. Prerequisite, High-School Chemistry or Physics.

#### 3-4 *Qualitative Analysis*

A systematic study of the theory and practice of analysis. Four hours during the year. Given in 1920-21.

#### 5-6 *Organic Chemistry*

A course in the compounds of carbon primarily intended for those students who intend to pursue graduate study in science or medicine. Four hours, first and second semester. Given in 1921-22.

#### 7-8 *Organic Preparations and Analysis*

Additional laboratory work. May be taken with course 5-6. Three hours, either or both semesters.

#### 9-10 *Elementary Quantitative Analysis*

Gravimetric, volumetric, and electrolytic analysis. Laboratory work, problems and conferences. Four hours during the year.

#### 12 *Physical Chemistry\**

A course treating of the fundamental principles of physical chemistry. Three hours, second semester. Given in 1921.

#### 14 *Industrial Chemistry\**

Lectures, conferences and reports. Preparation of technical products and inorganic compounds in the laboratory. Three hours, second semester. Given in 1922.



**15-16 *Advanced Quantitative Analysis\****

Special methods in gravimetric, volumetric, electrolytic and gasometric analysis adapted to the needs of the individual student. Hours and credit to be arranged.

**17-18 *Thesis Work\****

A thesis embodying the investigation of some problem. Primarily for graduates. Hours to be arranged.

**IV. EDUCATION AND PHILOSOPHY****PROFESSOR ERVIN****1-2 *Psychology (Elementary)***

The course covers the main topics of the subject, sensation, perception, attention, association, reasoning, impulse, instinct, emotion, volition, the self. The educational aspects of the subject are made prominent. The course is a general elective and is prerequisite to advanced courses in Education and Philosophy. Three hours thruout the year.

**3-4 *Psychology (Advanced)***

An intensive study of general and special problems in the application of psychology to law, medicine and ministry, advertising, salesmanship and scientific management, etc. Laboratory and field work, psychological tests and measurements. Juniors and Seniors. Three hours thruout the year. Prerequisite 1-2.

**5-6 *Psychology (Educational)***

It is the aim of this course to emphasize the activities intimately connected with and bearing upon the educational practice in Secondary Schools. Classroom observation and practice teaching will constitute the laboratory work in addition to text, lectures and student research. Three hours thruout one year. Juniors and Seniors. Prerequisite 1-2.

**7 *Psychology (Social)***

A study of individual activities as modified by social groups as found in the crowd, the mob, the assembly, the literary society, the college fraternity and other gatherings, social, business, religious; stressing suggestion, imitation, leadership, and the development of art, religion, language as a means of social ex-



pression. Class, field and laboratory work. Juniors and Seniors. Three hours one semester. Prerequisite 1-2.

8 *Psychology (Religious)*

A psychological analysis of religious life and the mental problems involved. Adolescence in religious experience. The personal in religion. Religious consciousness. Conversion, Religion in social relations, etc. Laboratory, field and text work. Sophomores, Juniors, Seniors. Three hours one semester. Prerequisite 1-2.

9 *Educational Administration.*

The study of the organization, administration and supervision of public education in typical development of American education. A special study of Secondary Education. Juniors and Seniors. Three hours one semester. Prerequisite or parallel 3-4 or 5-6.

10 *Theory and Practice of Teaching in Secondary Schools*

The foundation of methods. The study and application of educational principles. Organization of schoolroom problems; preparation of schedule; use of textbooks; special reference to the "Question" in recitation. Juniors and Seniors. Prerequisite 9. Three hours, one semester.

11 *History of Education (General)*

A general survey of educational development in theory and practice. Readings from educational monographs with reports. Discussions. Sophomores, Juniors and Seniors. Three hours one semester.

12 *History of Education in the United States*

Education in the Colonies. Growth and development of the colleges. Beginning of the modern system. Development in special lines, Commercial, Vocational, Industrial, etc. Sophomores, Juniors, Seniors. Three hours, one semester.

13 *Principles of Education*

A discussion of the ideals to be aimed at by teachers and of the best methods of realizing them as disclosed by critical and scientific study of the underlying educational processes. Opportunity is offered the student to make special study of topics of his choice. Sophomores, Juniors, Seniors. Three hours, one semester. Prerequisite 1-2.

#### 14 *Educational Sociology*

The relation of educational principles to the home, community, church, business and social groups wherever in contact—Parent Teachers Associations, Federations, Unions, etc. Tradition and custom in school affairs, etc. Sophomores, Juniors, Seniors. One semester, three hours Prerequisite 1-2.

#### 15 *Logic*

The laws of thought. The problems, methods and principles of deductive and inductive logic. How to study. General elective. Three hour, one semester. Prerequisite or parallel, 1-2.

#### 16 *Ethics*

The main types of ethical theory. Discussion and personal application of problems. Special readings and reports. Special application of the problems raised by the War and Reconstruction. Juniors and Seniors. Three hours, one semester. Prerequisite 1-2.

#### 17 *History of Philosophy*

1. From Thales to Plotinus. 2. The rise and decadence of Scholasticism. 3. The development from Bruno to Nietzsche, with discussions of present Philosophical tendencies and problems. Seniors and Graduates. Two or three hours, one semester.

#### 18 *Contemporary Philosophy*

Readings and discussions in Pragmatism, Realism and other phases of modern philosophy. Seniors and Graduates. Two or three hours, one semester.

### V. ENGLISH LANGUAGE AND LITERATURE

PROFESSOR THOMAS AND MR. BRANSON

The department of English offers courses in English composition and rhetoric, in the historical study of the English language, and in English and American literature. These courses seek to develop a love of literature and a genuine appreciation of the scholarly spirit in literary work. The English classes are planned to encourage a student to read for himself, to give him broader views of the range of literary study, and to enable him to pursue

specifically the study of some particular literary topic or period, or to follow in detail the development of some special category of literature.

### 1 *General Composition*

A practical course in writing, intended to teach correctness and clearness of expression, and to give practice in each of the prose forms. Semi-weekly compositions. Regular appointments for individual criticism. Analysis of prose specimens. Impromptu writing in class occasionally.

*All new students are expected to take this course unless there should be the clearest evidence of previous special preparation and attainment in the subject. Work done in English composition for entrance credit is in no way an equivalent of this course. Three hours, first semester, Freshman year. Required of all students.*

### 2 *Composition and Literature*

Continuation, one recitation a week, of 1. Two recitations a week given to the study of American poetry. Three hours, second semester. Freshman year. Required of all students.

### 3 *General History of English Literature from the beginning through the period of Classicism in the 18th century*

This course (in connection with 4.) gives a survey of the development of English literature from *Beowulf* to Tennyson. The work consists of the study of representative classics with lectures explanatory of their historical connection. Each student will also be required to hand in occasional essays and to keep appointments for criticism. Three hours, first semester, Sophomore year.

### 4 *General History of English Literature from the beginning of Romanticism to the present time*

Continuation of 3. Three hours, second semester, Sophomore year.

### 5 *Public Speaking*

The construction and the delivery of speeches. Study of the various types of orations with analysis of representative examples. Three hours, first semester, Junior-Senior elective. Given 1919-20; alternates with 7.

### 7 *Argumentation and Debate*

The principles of argumentation, regular practice in debating, and submission of briefs and written arguments. Three hours, first semester, Junior-Senior elective. Given 1920-21; alternates with 6.

### 8 *Shakespeare and his Contemporaries*

First half of the semester given to Shakespeare's predecessors and contemporaries, and second half to Shakespeare himself. Three hours, second semester, Junior elective.

### 9 *Restoration and Eighteenth Century Literature\**

Discussion of the leading poets and prose-writers from Dryden to Burns. Three hours, first semester, Junior-Senior elective. Given 1920-21; alternates with 11.

### 11 *English Prose of the Nineteenth Century\**

Lectures on the men and movements of the period. Study of the chief prose-writers of the Romantic and Victorian eras. Three hours, first semester, Junior--Senior elective. Given 1919-20; alternates with 9.

### 12 *English Poetry of the Nineteenth Century\**

Lectures on the poetry of the period. Reading and study of the poems of Wordsworth, Coleridge, Byron, Shelley, Keats, Tennyson, Browning, and the Pre-Raphaelites. Three hours, second semester, Senior elective.

## VI. GREEK

### PROFESSOR REDD

In this department the aim is to enable the student to acquire such a knowledge of the language as is essential to a liberal classical education. Stress is placed not only upon a careful study of the Greek language, its forms and syntax, but also upon the ancient Greek literature, its unity and originality, and the development, relationship and characteristics of its successive periods. Written examinations on Greek history and other subjects connected with Greek life are held each month.

#### 1-2 *Elementary Course*

This course is offered to those students who have not studied Greek, and yet desire to take the classical course. College credit is given for this course in the case of students who offer the full number of units required for admission to college but have not studied Greek. Four hours, both semesters.

3 *Selected Speeches of Lysias*

The grammar is carefully reviewed and the general principles of syntax are applied to class reading. Weekly exercises in translating from English into Greek, and monthly examinations in Greek history. Four hours, first semester.

4 *Homer's Iliad or Odyssey*

Grammar, prose composition and history continued. Seymour's *Language and Verse of Homer*; Jebb's *Introduction to Homer*. Four hours, second semester.

5 *Plato's Apology and Crito*

Syntax, prose composition and history continued. A brief sketch of Greek Philosophy. Three hours, first semester.

6 *Demosthenes' On the Crown*

Syntax, prose composition and history continued. A study of the Attic orators, and of the social and political life of the Greeks. Three hours, second semester.

7 *Euripides\**

A study of Greek drama and its influence. Jebb's *Primer of Literature*. Three hours, first semester, Junior elective.

8 *Sophocles\**

Metrical analysis of the drama read. Haigh's *Attic Theatre*. Study of Greek drama continued. Three hours, second semester, Junior elective.

9 *Aeschylus\**

With metrical analysis. Moulton's *Ancient Classical Drama*. Three hours, first semester, Senior elective.

10 *Thucydides\**

A study of the development of Greek history. Three hours, second semester, Senior elective.

11-12 *Greek Literature*

A study of the masterpieces of Greek literature in English versions. This course will enable the student to appreciate the influence of Greek thought, Greek culture and Greek ideals upon the best in modern literature. A knowledge of the Greek language is not essential. Three hours, Senior elective.

13 For admission to this course the completion of the undergraduate course in the Centre College or an equivalent, is necessary. There will be a thorough study of the syntax of mood and tense and advanced form composition. Readings from the Attic orators, the dramatists, and Thucydides. The selections will be varied from year to year. Greek history and literature. The private and public life of the Greeks. History of Athenian policies. Origin and development of the Greek drama. Metre and rhythm. Archæology. Every effort will be made to assist the student in his private studies.

15-16 *New Testament Greek*

This course is offered especially to those students who expect to prosecute the study further in theological seminaries. Three hours, Senior elective.

## VII. DEPARTMENT OF HISTORY

PROFESSOR ALLEN

1 *European History to 1815*

A general review of European History from the break up of the Roman Empire to the 16th century with a more detailed and careful analysis of the period from the beginning of the 16th century to the Congress of Vienna (1815). This course deals with the rise of national states, dynastic and colonial rivalries, and the beginnings of the struggles for constitutional rights. Particular attention is given to the economic, political and social forces of the period. Three hours first semester.

2 *European History from 1815 to the Present*

A study of 19th century Europe from the Congress of Vienna through the Treaty of Versailles. Some of the important subjects are; the far reaching effects of the French Revolution, the struggles between democracy and imperialism, the rise of national imperialism, the causes of the Great War, the peace treaty following the war and the League of Nations. Some of the problems of reconstruction in Europe are also discussed. Three hours second semester.

3 *History of the United States to 1865*

History of the United States from the period of colonization to the close of the Civil War. In this course special attention is



given to the period of the Revolutionary War, the adoption of the Federal constitution, the rise and growth of political parties and the causes of the Civil War. Three hours first semester.

#### 4 *History of the United States since the Civil War*

This course is a study of the national development since the Civil War. The particular theme of this course is the struggle between the liberal and reactionary forces in American life. America's part in the Great War, the League of Nations, and American world diplomacy are discussed. Three hours second semester.

#### 5 *History of England*

History of England from the 16th century to the present. Particular emphasis is given to the political and social phases. The design of the course is to trace the evolution of this great Democracy, to discover the points of sympathy and similarity to our Democracy, with a view to discovering whether there should not be closer relations between the two countries in international affairs. Three hours first semester. Alternates with History 1. Given in 1920-21.

#### 6 *History of Modern Germany*

This course deals with the rise of the German National State; the formation of the Empire; German international ambitions, and the Great War. The design of the course is to study German institutions and ideas as contrasted with those of England and America. Three hours second semester. Alternates with History 2. Given in 1920-21.

#### 7 *Constitutional History of England*

A study of the development of the political institutions of England from the Anglo-Saxon period to modern times. The growth of parliament, the evolution of the cabinet, the prerogatives of the sovereign are emphasized. The organization of political parties, their history and relation to the English democracy is also carefully considered. This course open only to advanced students. Three hours first semester.

#### 8 *Constitutional History of the United States*

This course is supplementary to course 7. It is a study of the origin and growth of the American constitution. The his-



tory of political parties, in their organization and life, as related to our constitutional form of government is also given careful study. Open only to advanced students. Three hours second semester.

9 *History of Labor in the United States*

This course is offered to students who wish a careful and thorough study of the labor problems before the American people today. In this course comparisons will be made from time to time with the history and status of labor in England. Open only to advanced students. Three hours second semester.

## VIII. LATIN

### PROFESSOR CHEEK

1 *Selected Letters of Cicero and Cicero's De Amicitia*

In connection with the authors read there will be weekly exercises in prose composition and periodical examinations in Roman History. Four hours, first semester.

2 *Livy*

Prose composition and Roman History as in 1. Four hours, second semester.

3 *Horace's Odes and Satires*

Prose composition and Roman History as in 1. Three hours, first semester, Sophomore year.

4 *Agricola of Tacitus, and two plays of Terence*

Prose composition and Roman History as in 1. Three hours, second semester, Sophomore year.

5 *Annals of Tacitus and Satires of Juvenal\**

Junior elective for those having completed the Latin of the Freshman and Sophomore years. Three hours, first semester.

6 *Comedies of Plautus\**

Junior elective for those having completed the Latin of the Freshman and Sophomore years. Three hours, second semester.

7 *The Ethics of Cicero\**

Senior elective for those having completed the Latin of the Freshman, Sophomore and Junior years. Three hours, first semester.

8 *Poetry of the Augustan Age\**

Senior elective. Reports to be made on assigned topics. Three hours, second semester.

## IX. MATHEMATICS

PROFESSOR CROOKS AND MR. BRANSON

1 *Solid and Spherical Geometry*

This course is given to meet the needs of students who did not offer this subject for entrance credit, and is given college credit only in the case of those who met the full requirement of fifteen units at the time of entering college. Two hours, first semester.

3 *Plane Trigonometry*

Special emphasis is placed upon the general definitions of the functions, the relations of the functions, the reduction of trigonometric functions, the solution of trigonometric equations, and the development of formulæ. Much time is given to the solution of triangles. Four hours, first semester.

4 *Algebra*

The subjects treated are functions and their graphs, the binomial theorem for negative and fractional exponents, partial fractions, permutations and combinations, determinants, the theory of equations and the solution of numerical equations. Four hours, second semester.

5-6 *Plane Analytic Geometry*

The course begins with the construction of many curves from their equations. This is followed by a study of the straight line, the circle, the conic sections, parametric equations of loci, empirical equations, problems on loci, and the general equation of the second degree. Elective for students who have credit for 3 and 4. Two hours, throughout the year.

7 *Advanced Algebra*

Convergence of infinite series, operations with infinite series, exponential and logarithmic series, determinants and the theory of equations. Elective for students who have credit for 3 and 4. Two hours, first semester.

8 *Spherical Trigonometry*

Open to students who have credit for 1 and 3. Two hours, second semester.

9-10 *Calculus*

The differentiation of functions of a single variable, successive differentiation, maxima and minima, tangents and normals, differentiation of functions of several variables, partial differentiation. Methods of integration, integration a process of summation, definite integrals, rectification of curves, areas, volumes, surfaces. Elective for students who have credit for 3 and 4. Three hours, throughout the year.

11 *Advanced Calculus\**

The general theorems of Leibnitz, Taylor, and Euler; general methods of integration, multiple integrals, geometric applications and an introduction to differential equations. Elective for students who have credit for 3, 4, 7 and 8. Three hours, first semester,

13-14 *Plane and Solid Analytic Geometry\**

Elective for students who have credit for 3, 4, 7 and 8. Two hours, throughout the year.

15-16 *Differential Equations\**

Ordinary and partial differential equations. Elective for students who have credit for 7 and 8. Two hours, throughout the year.

17 *Astronomy*

This course is mainly descriptive and historical. Its purpose is to give the student a knowledge of the facts and principles of the science and make him acquainted with the instruments and methods by which they have been discovered and deduced. The recitations are supplemented by observations of the heavenly bodies. The student is also taught how to locate the principal stars and constellations. A knowledge of physics and trigonometry is essential. Three hours, second semester, Junior-Senior elective.

18 *Surveying*

Heights and distances; computation of areas; plotting and mapping; compass and transit surveying; laying out and dividing land; leveling. Three hours, second semester, with necessary field work. Junior and Senior elective.

## X. MODERN LANGUAGES AND LITERATURE

PROFESSORS MEIER AND REDD

In the Modern Language reading-room adjoining the department recitation room in the Main Building, the student will find ample facilities for investigative work. Large additions of valuable reference works have been imported during the past years. The reading-room is also equipped with European weekly and monthly periodicals, both philological and literary. The student is thus afforded excellent opportunity to supplement his studies by putting himself in touch with the march of modern European thought.

## GERMAN

The purpose of the work of the first year is to secure a thorough knowledge of the fundamental principles of the German language and to acquire an extended vocabulary. In order that the student may acquire the ability to understand spoken German and to *think* in German, the work, in the class-room, is carried on in German, as far as practicable, and prose compositions, consisting largely of reproduction of things read in German, is made an important feature of the work.

After the first year the aim is to familiarize students with the best German literature, and at the same time constantly to afford practice in the oral and written acquisition of the language. In the second year the work is largely carried on in German, and after the second year entirely so.

If any course in German is elected, it must be continued throughout the year.

1 *Elementary German*

Elements of the language. Translation of German into idiomatic English. Careful drill on pronunciation. Daily exercise in composition. Four hours, first semester.

2 *Elementary German*

Continuation of 1. Rapid reading for the purpose of equipping the student with an extended vocabulary. Review of grammar based on short daily exercises in composition. Easier syntactical problems mastered. Class criticism by students. Four hours, second semester.

### 3 *Intermediate German*

Rapid reading of stories by Wildenbruch, Seume, Fulda, Freytag, Dahm, etc. Review of elements of grammar continued by daily composition and memorizing. Introduction to abstruser problems of syntax. Three hours, first semester.

### 4 *Introduction to the Dramatists*

Schiller's *Wilhelm Tell* or *Die Jungfrau von Orleans*, and some work of Goethe. Conversation and composition continued as above. Three hours, second semester.

5\*

Sudermann, one drama and one novel read in class. Each student should read and review one of his works outside of class. Three hours, second semester.

6\*

Freytag's *Der Rittmeister von Alt-Rosen*, or Scheffel's *Ekkehard* (abbreviated edition), and Goethe's *Meisterwerke* (Bernhardt). Each student reads and reviews one other work of either Freytag or Scheffel outside of class. Three hours, second semester.

### 7 *Scientific German\**

The aim of this course is to afford students of the sciences an acquaintance with technical scientific nomenclature and style. Translations of German scientific texts and articles in current technical periodicals. Two hours, first semester. Open to students who have had at least two years of college German.

### 8 *Conversational German*

Drill in composition and conversation; short talks by students on selected subjects, and a survey of German life and institutions. Two hours, second semester. Open to students who have had German 3 and 4 or their equivalent.

9\*

Schiller's *Wallenstein*, the complete trilogy, and portions of Schiller's *Thirty Years' War* having bearing on the drama. Goethe's *Faust*. Part one, begun. Three hours, first semester.

10\*

Goethe's First Part of *Faust* completed. Brief survey of the Second Part, and also a brief survey of German Literature. Texts: Moore and Keller. Three hours, second semester.

11

Lessing and the beginning of modern German classical literature. At least two of his dramas are read in class, and other works of his of this period outside of class. Three hours, first semester.

12 *Meisterwerke des Mittelalters\**

Three hours, second semester.

## FRENCH

1 *Elementary French*

Thorough drill on the elements of the grammar. Careful exercise in pronunciation. Daily exercise in composition. Dictation. Four hours, first semester.

2 *Elementary French*

Rapid reading of easy prose. Grammar continued by means of composition work daily. Sight reading. Four hours, second semester. Courses 1 and 2 are regularly supplemented by collateral reading and examinations.

3 *French Prose of the Nineteenth Century*

Dumas pere. Merimere, Michelet, Verne, Loti, etc. Grammar, Composition. Three hours, first semester.

4 *French Literature of the Seventeenth Century*

Corneille, Racine, Moliere, Bossuet, La Fontaine, Mme. de Sevigne, etc. Collateral reading. Three hours, second semester.

5 *French Literature of the Eighteenth Century\**

Voltaire, Diderot, LeSage, Rousseau, Montesquieu, etc. Parallel reading. Reports. Three hours, first semester.

6 *The Sixteenth Century\**

The period of transition. Marot, Ronsard, Rabelais, Montaigne and other representative writers of the Renaissance. Three hours, second semester.

7 *Scientific French\**

Translations of French scientific texts and articles in current technical periodicals. Two hours, first semester.

8 *Conversational French\**

Drill in easy composition and in conversation, short talks by students on selected subjects and a survey of French life and customs. Two hours, second semester.



## SPANISH

1 *Elementary Spanish*

Grammar. Composition. Pronunciation. Reading of easy prose. Three hours, first semester.

2 *Elementary Spanish*

Rapid reading of more difficult prose by standard modern authors. Composition. Three hours, second semester.

3 *Introduction to Spanish Prose Writers*

Rapid reading of more difficult prose—Valera, Galdos, etc. Two hours, first semester.

4 *Cervantes. Don Quixote\**

Study of his life and works. Collateral reading and reports. Two hours, second semester.

## XI. PHYSICS

PROFESSOR SMITH, MR. BARNETT,

MR. DAVIS, ASSISTANT.

Students will be required to begin their college work in physics with Course 1 and 2, unless they have completed an elementary study of the subject of such extent and character as to enable them to take more advanced work with profit.

1 *Mechanics and Heat*

The laws of motion; properties of matter; mechanics of gases and liquids; the fundamental laws and phenomena of heat; thermometry and calorimetry. Recitations, lectures and laboratory work. Four hours, first semester.

2 *Electricity, Sound and Light*

Magnetism; static electricity; electric currents; wave motion; the physical basis of music, and the simpler phenomena of light. A continuation of the preceding course. Four hours, second semester.

Courses 3-7 are of a more advanced character than the preceding. About one-half the time is devoted to a set of laboratory experiments illustrative of fundamental principles and suitable for accurate measurements. Students electing these courses are required to have had course 1 and 2, or its equivalent. Chemistry should be taken either before or at the same time with these courses.

### 3 *Mechanics and Molecular Physics*

A study of uniformly accelerated and simple harmonic motion; rotary motion; elasticity; surface tension; hydrostatics and hydraulics. Three hours, first semester.

### 4 *Heat*

Thermometry; calorimetry; thermal conductivity; the kinetic theory of gases, and the fundamental laws of thermodynamics. Three hours, second semester.

### 5 *Electricity and Magnetism*

Accurate measurements of the principal electric and magnetic quantities, including strength of field, potential difference, resistance, current, capacity, inductance and permeability. A study of the different systems of electrical units and the relation between them. Three hours, first semester.

### 6 *Sound and Light*

The theory of wave motion; interference and diffraction of sound and light waves; measurements with the spectrometer diffraction grating and polariscope. Three hours, second semester.

### 7 *Electrical Waves and Wireless Telegraphy\**

A course of lectures and laboratory work upon the theory and present commercial practice of wireless telegraphy. Three hours, first semester.

### 8 *Electrical Theory\**

An advanced course of lectures on the recent development of the subject, including the discharge of electricity through gases. The electron theory and radioactivity. Three hours, second semester.

### 9 *Physical Manipulation*

A course for students who expect to become teachers of physics or to take up advanced work in the subject. The course is designed to give the student facility in preparation of materials and apparatus for the laboratory. Practice is given in the blowing, cutting, drilling, grinding and silvering of glass; the purification of mercury, and in the preparation of various laboratory materials; also in soldering, screw-cutting and elementary lathe work. Two hours, first semester.

10-11 *Theoretical Mechanics\**

A mathematical course based on Hoskin's *Theoretical Mechanics*. The methods of calculus are used throughout the course. Three hours, first and second semesters.

12 *Photometry*

A laboratory course supplemented by occasional lectures, involving the determination of candle-power and efficiency of various commercial gas, incandescent and arc lamps. Three hours, second semester.

13-14 *Direct and Alternating Current Machines\**

A study of the fundamental principles of direct and alternating current dynamos and motors, and transformers, with an introduction to their practical operation and testing. Three hours, first and second semesters.

15-16 *Mechanical Drawing*

In order to meet the needs of students who are expecting to take up engineering, agricultural or scientific work, a course is offered embodying the essential elements of mechanical drawing. About eight hours per week is spent on the work in the drawing room and no outside preparation is required. Three hours, first and second semesters.

## XII. DEPARTMENT OF POLITICAL ECONOMY AND POLITICAL SCIENCE

PROFESSOR ALLEN

### POLITICAL ECONOMY

1 *Principles of Economics*

The fundamental principles of economics are dealt with in this course. It is intended as a preparation for the more advanced courses in economics. Three hours first semester.

2 *Economic Problems*

Banking, Insurance, Taxation, Finance, Tariff, Wages and Hours of Labor. This course follows course 1. Three of these problems are selected for study. Three hours second semester.

3 *Industrial Organization and Management*

Three hours second semester.

4 *Economic History of the United States*

Alternates with course 3. Three hours second semester.

## POLITICAL SCIENCE

1 *General Principles of Political Science*

The nature of the state, the origin of the state, forms of government, sovereignty, citizenship and nationality, the electorate, distribution of the powers of government and comparative government. Alternates with Political Economy 1. Three hours first semester.

2 *Political Parties in the United States*

Political Parties, their organization and management and their general relation to democracy in America. Alternates with Political Economy 2. Three hours second semester.

3 *American Diplomacy and American World Policies*

This course takes up the history of American diplomacy and concludes with a discussion of some of the policies the modern economic and international world is forcing us to adopt. Alternates with course 2. Three hours second semester.

4 *Constitutional Law*

This course takes up the general conceptions of constitutional law; fundamental rights; the Federal government. It deals with those practical problems of citizenship under the American form of government that every citizen ought to know. Follows Business Law. Three hours second semester.

5 *Business Law*

A study of the fundamental principles of business law such as contracts, agency, torts, real estate mortgages, negotiable instruments, partnerships, etc. Three hours first semester.

## DEGREES CONFERRED IN JUNE, 1919

## Bachelor of Arts

Alexander Hamilton Barber	Springfield
William Douglas Chamberlain	Glasgow
George White Fithian	Paris
Julian Thomas Gentry	Danville
Fred Owsley Marsh	Danville
Robert Francis Odgen	Ashland
Forestes Reid, Jr.	Danville
Joseph Lynn Turner	Danville
William McKinley Wesley	Bethelridge

## Bachelor of Science

Frank Talbot Allen	Sharpsburg
Charles Armstrong Browning	Danville

## Doctor of Divinity

Oliver P. Barnhill	New York, N. Y.
Francis Powell Cheek	Cincinnati, O.
George Fulton	Waynesboro, Pa.
Alfred Alcorn Higgins	Louisville
William Higgins Hopper	Louisville
James F. Record	Pikeville

## Doctor of Letters

John Barbour	Maysville
Sara Lee Young	Danville

## Doctor of Laws

William Ayres	Pineville
Andrew M. J. Cochran	Maysville
Robert Tate Irvine	Big Stone Gap, Va.
Augustus Rogers	Danville

## PRIZEMEN 1918-1919

## The Ormond Beatty Alumni Prize

William Douglas Chamberlain	Glasgow
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## The Henry Barret Boyle Latin Prize

George Forrest Hambleton	Springfield
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## Oratorical Prize

Lee Jordan Moore-----Franklin

## The William Ernst Prize

John Young Brown-----Sturgis

William Douglas Chamberlin-----Glasgow

Raymond Fitch Henderson-----Vanceburg

## Valedictory

Robert Francis Ogden-----Ashland

## LIST OF STUDENTS

## SENIOR CLASS

Bruner, Arthur C.-----Richmond

Bullitt, Hugh Kennedy-----Louisville

Cheek, Samuel Robertson, Jr.-----Danville

Coleman, James Fox-----Gracy

Davis, John Allen, Jr.-----Danville

Durham, Milton Webster-----Indianapolis, Ind.

Joplin, George-----Louisville

Pryor, William Rowan-----Crestwood

Stout, Richard Helm-----Danville

VanAntwerp, Howard, Jr.-----Farmers

Vogel, Oscar C.-----Henderson

Wright, Robert Bray-----Lebanon

## JUNIOR CLASS

Bell, Wm. Madison-----Fort Worth, Texas

Brown, John Young-----Sturgis

Case, William Loren-----Springfield

Cash, Henley Lewis-----Stanford

Chenault, Carroll Custus-----Mt. Sterling

Daniel, James William-----Mt. Sterling

Dillehay, Edward R.-----Danville

Durham, James-----Lebanon

Diddle, Edgar Allen-----Adairville

Esrey, Niles Orr-----Washington, D. C.

Faulkner, Raymond Tye-----Campbellsville



Gay, Woodford	Winchester
Gilbert, Stephen A.	Newfound
Hackley, John Immel	Versailles
Hambleton, George F.	Springfield
Henderson, Raymond Fitch	Vanceburg
James, William Nelson	Watauga, Texas
Jones, Lee Goebel	Campbellsville
Marshall, Burwell Keith, Jr.	Louisville
Strother, J. Russell	Danville
Thomas, Edwin K.	Paris
Walden, William Julian	Danville
Woodford, Archer	Paris

## SOPHOMORE CLASS

Allen, Hiram Taggett	Prestonburg
Allen, Leslie LeRoy	Grove, Oklahoma
Anderson, Sidney Johnson	Midway
Ardery, George	Paris
Armstrong, Norris	Fort Smith, Ark.
Auxier, Jean Leslie	Williamson, W. Va.
Averill, Thomas Page	Frankfort
Bishop, Sanford Thompson	Bloomfield
Brashear, Walter, Jr.	Louisville
Brown, Marshall Walton	Newbern, Tenn.
Brumback, Kenneth Walker	Covington
Campbell, Donald Allan	Springfield
Caudill, Fred Welden	Indian Bottom
Caudill, Lawrence Claude	Indian Bottom
Caudill, Lawrence Vinton	Indian Bottom
Cregor, Benjamin Woodbury	Springfield
Eastland, James Henry	Danville
Edwards, Rothwell Tate	Harrodsburg
Embry, Joel Thomas	Stanford
Graves, Junius Calhoun	Auburn
Green, Julian Bascot	Danville
Grow, Charles Milan	Danville
Harris, Jesse Carleton	Mayfield
Hill, Thomas Clement	Stanford
Howard, Charlton Alexander	Covington
Hynes, William Strother	Columbia

## SOPHOMORE CLASS (continued)

Irvin, Joseph Bruce	Danville
Joplin, Thomas Vaughn	Louisville
Juett, John Samuel	Williamstown
Lovett, Joe Thomas	Benton
McBrayer, Harvey Dewey	Lawrenceburg
MacCollum, Max Speers	Louisville
McEwen, Henry Bishop	Calhoun
McGee, John Bedford	Bloomfield
McMillin, Alvin B.	Fort Worth, Texas
Millikin, James Butler	Bellevue
Moore, Eugene Robinson	Danville
Murphy, Joseph Allison	Columbus, Ohio
Noe, Samuel VanArsdall	Springfield
Orman, Charles Lyon	Danville
Phillips, William Kendrick	Louisville
Pinney, James Martin	Mt. Sterling
Privette, Thomas Nelson	Dyersburg, Tenn.
Radford, Pryor	Mayfield
Randall, James	Richmond, Mo.
Reid, Virgil Bowman	Danville
Royce, Donald Andrew	Cleveland, Ohio
Rue, Ansel	Danville
Sanford, Theodore Alexander	Milburn
Singleton, Clarence Edward	Stanford
Spencer, Alex. Hamilton	Guerrant
Steele, Monte Bruce	Hustonville
Tapp, George Hambleton	Springfield
Wells, Thomas Richardson	Guerrant
Wesley, Ned	Bethelridge
Williams, Arthur Branch	Frankfort

## FRESHMAN CLASS

Addams, Abe Buchanan	Frankfort
Alexander, Ross Coleman	Gratz
Baker, Stuart Lisle	Monticello
Baldwin, Robert Colmes	Winchester
Ballard, James Nelson	Port Arthur, Texas
Bayne, Samuel Baskett	Shelbyville
Bedford, William Eugene	Dallas, Texas

Bickel, Paul Jacob	Louisville
Blevins, William Ashley	Mt. Sterling
Bowden, Ripley Elkin	Louisville
Brewer, Robert James	Cleveland, Ohio
Broaddus, Andrew, Jr.	Louisville
Browning, Buford Wood	Danville
Bruner, Karl Henry	Louisville
Burruss, James Cecil	Lexington
Carter, Ralph Emerson	Trenton
Cartmell, Williams Holton	Maysville
Casey, Edward Benedict	Shelbyville
Cecil, Charles Perry, III.	Danville
Chambers, Samuel Hughes	Hawesville
Cleland, Robert Ray	Lebanon
Collins, Cyrus W.	Elkatawa
Collins, Philip Cortlandt	Pittsburg, Pa.
Cook, Eugene Wilbur, Jr.	Danville
Cooper, Roy Charles	Concord
Cord, Raymond Black	Mt. Sterling
Cottrell, Jack Tipton	Prestonburg
Craddock, Ben Frank	Humbolt, Tenn.
Craig, Sam Baughman	Stanford
Cress, Joseph Caldwell	Danville
Crutcher, Norval Dixon	Louisville
Day, John Sanford	Dawson Springs
Dudley, Samuel Houston	Flemingsburg
Dugan, John T.	Louisville
Edmiston, Joseph Thomas	Crab Orchard
Ervin, Robert Miller	Danville
Eubank, Harold Eugene	Shelbyville
Ford, Robert Clayton	Danville
Frisbie, Ben Hudson	Lancaster
Fullerton, Hobart Rardin	Greenup
Fulton, John Drake	Anchorage
Gaines, Carl Webster	Frankfort
Garman, Paul	Stanford
Garrett, Williams Edward	Columbus, O.
Gault, Ross Moore	Portsmouth
Gentry, Henry Brinton	Bloomington, Ind.
Glore, Walter Scott, Jr.	Danville

Graham, Warren Clay	Fulton
Hagan, James Edmund	Danville
Hamlett, Edward Coleman	Columbia
Harding, James Hilary	Henderson
Harris, Willard Dow	Whitesburg
Hatcher, William Rochester	Franklin
Hatchett, Terry Loving	Glasgow
Hayes, Harold Burton	Birmingham, Ala.
Hayes, Richard Burton	Birmingham, Ala.
Hedrick, Charles Howard	Monticello
Hill, Samuel Jones	Stanford
Hogan, Smith D.	Frankfort
Holland, William Lawrence	Franklin
Horschell, George	Ironton, O.
Jarvis, James Lewis	Romine
Johnson, William Henry	Danville
Johnston, George William	Shelbyville
Kennedy, James Marvin	Louisville
Kimbel, George Dewey	Louisville
King, Alex. Cook	Flemingsburg
King, Gus	Dallas, Texas
Kinnaird, William H.	Lancaster
Lair, Redmon Eugene	Paris
Lowe, Robert Irvin	Tunica, Miss.
Martin, Edward Kilgore	Freedom
Mathias, Harold Llewellyn	Fort Worth, Texas
Mattick, Jene Clark	Prestonville
Merz, James Charles	Newport
Montgomery, James Ralph	Fort Worth, Texas
Moore, Lee Jordan	Franklin
Morrow, Gordon Edward	West Plains, Mo.
McClaskey, James Jeffries	Boston
McDonnell, Thaddaeus Vinson	Fort Worth, Texas
McEwen, Max Clark	Somerset
McKee, Alexander Ritchie	Kansas City, Mo.
McKenzie, Thomas Aarons	Auburn
McMakin, Walter	Danville
Newland, Clarence Francis	Hazard
Newlin, Edgar Christian	Newport
Nichols, John Ball	Danville

Orman, Thomas Elwood	Danville
Patterson, James Thomas	Harrodsburg
Peak, Robert Frank	Louisville
Peay, Austin, Jr.	Clarksville, Tenn.
Pennington, Walter Givens	London
Peter, Richard Cowling	Louisville
Pratt, Clark	Leburn
Prewitt, Edward Rogers	Mt. Sterling
Price, William Raney	Danville
Purdom, Emil Garness	Perryville
Purdom, W. Ray	Perryville
Reed, David	Austin, Texas
Roberts, James Borum	Somerset
Robertson, Carson Albert	Auburn
Scobey, Richmon	Newbern, Tenn.
Shipman, Robert David	Shelbyville
Sinclair, Ralph Neal	Dyersburg, Tenn.
Smyth, Louie Lehman	Dallas, Texas
Snoddy, Hall Terry	Owensboro
Spradlin, Alex Harmison	Prestonburg
Stapp, Burton	Lancaster
Stone, John Boyle	Danville
Stone, Marshall Owsley	Danville
Summers, Alonzo Clarence	Glendale
Supplee, Ralph	Carrollton
Swinebroad, George	Lancaster
Tanner, Edward Jay	McKinney
Tanner, John Porter	Owensboro
Told, Peter Edward	Carrollton
Veatch, Cap Tillier	Danville
Walden, Herring Clay	Danville
Weaver, James Redwick	Fort Worth, Texas
Wesley, William Parker	Somerset
Whitnell, Edwin A.	Fulton
Wyatt, Leonard	Elkatawa
Wortham, Thomas Emerson	Rineyville
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